WEST Search History

DATE: Thursday, October 31, 2002

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DB = U	SPT; PLUR=YES; OP=OR		
1.3	L1 and (angiogenesis!)	55	1.3
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<u>1.25</u>	L24 AND (SURGERY OR SURGICAL OR CHEMOTHERAP\$ OR RADIATION OR "LASER THERAPY")	21	1.25
<u>L24</u>	L23 AND (dna\$ OR VECTOR\$)	25	1.24
1.23	L22 AND (OCULAR OR CHOROIDAL OR RETINA\$ OR BARTONELLOSIS OR "CHRONIC INFLAMMATION" OR OSTEOARTHRITIS OR RHEUMATOID OR PHEMPHIGOID OR TRACHOMA OR OSLER\$)	25	1.23
<u>L22</u>	L21 AND (TUMOR\$ OR METASTASES OR RETINAL OR CHOROIDAL\$)	35	<u>L22</u>
<u>L21</u>	L20 AND INFLAM\$	38	<u>L21</u>
<u>L20</u>	L19 AND PHARMACEUTICAL	49	<u>L20</u>
<u>L19</u>	L18 AND (CARBOXY OR "CARBOXY TERMINAL")	56	<u>L19</u>
<u>L18</u>	L17 AND (CARBOXY OR "CARBOXY TERMINAL")	56	<u>L18</u>
<u>L17</u>	L15 AND (ACETYL\$ OR BENZOYL\$ OR ALKYLSULFONYL\$ OR ARYLSULFONYL\$ OR ALKYLAMINOACYL\$ OR FORMYL\$)	95	<u>L17</u>
<u>L16</u>	L15 AND (CAP OR CAPS OR CAPPED\$)	41	<u>L16</u>
<u>L15</u>	L14 AND ANGIOGEN\$	168	<u>L15</u>
<u>L14</u>	"SER ASN SER" OR "SER GLN SER"	2398	<u>L14</u>
<u>L13</u>	L10 OR L11	1	<u>L13</u>
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<u>L9</u>	L8 or 16	3	<u> </u>
<u>L8</u>	6027711.pn. and (benzoyl\$ or alkylsulfonyl\$ or arylsulfonyl\$ or alkylaminoacyl\$ or arylaminoacyl or formyl\$)	1	<u>L.8</u>
<u>1.7</u>	6027711.pn. and (acetyl\$)	0	<u>1.7</u>
<u>L6</u>	L5 and (cap or caps or capped)	3	<u>L6</u>
<u>L5</u>	12 and tripeptide\$	19	<u>1.5</u>
<u>L4</u>	L2 and ("snss" or "sqss")	0	<u>L4</u>
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<u>L2</u>	L1 and angiogen\$	48	1.2
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Potential tumor-targeting peptide vector of histidylated oligolysine
  conjugated to a tumor-homing RGD motif.
AUTHTE: Aoki Yuji(a); Homaka Shigetoshi; Kawa Shigeyuki; Kiyosawa Kendo AUTH F ADDRESS: [a] The Second Department of Internal Medicine, Shinshu
  University School of Medicine, 3-1-1 Asahi, Matsumoto, 390-8621:
y: ki55@hsp.md.shinshu-u.ac.jp:*Japan
JOURNAN: Cancer Gene Therapy 8 (10):p783-78% October, 2001
MESTITM: print
ISSN: 1929-190:
FORTMENT TYPE: Article
FEO FE TYPE: Abstract
LAN "ARE: English
SUMMER LANGUAGE: English
ABSIFA"T: We have developed a potential tumor-targeting peptide vector
  (FGD-hK) that is intermed to be systemically and repeatedly administered
  to patients with advanced solid tumors. The peptide \ensuremath{\text{vector}} of 36
  Leamint acid residues, CRGDCF(K(He)KKK)6, comprises a tumor-homing RGD
  modif, a DNA -binding oligolysine, and histidyl residues to facilitate
  and delivery into the cytosol. Using cytomegalovirus-driven luciferase
  expression plasmids as a reporter, we tested the transfection efficiency
  of ckGD-hK in nepatoma and pancheatic cancer cell lines. Transfection
  with the dRGD-nK/plasmid complexes (molar ratio 4000:1) was inhibited by
  of all pafilomy in Al, an inhibitor of the vacualar ATPase endosoma
  proton pump, or 10 muM cycloBGD:V, an integrin alphaybeta3 antagonist,
  undicating that the three elements of tRGD-hK could function as expected,
  at least in vitro. In nuce made bearing tumors created by subputaneous
  uncoulation, luciferase activity in the tumor tissues 48 hours after
  the injection of the dEGD-hF/plasmid complexes through the tail vein (20
  mug plasmids per mouse) was significantly higher than that in the lung,
  kioney, and spleen, but only slightly higher than that in the liver.
  Although the latter difference was small, we propose a potential nonvinin-
  gene therapy for advanced solid tumors through use of the tumor-targeting
  reptide vector .
FEGISIRY NUMBERS: 88899-55-2: BAFILOMYCIN A-1; 9014-00-0Q: LUCIFERASE;
    e1869-41-8Q: LUCIFERASE; 61969-99-1Q: LUCIFEFASE; 61970-00-10:
    LUCIFERASE; 62213-54-1Q: LUCIFERASE; 76106-81-5Q: LUCIFERASE
DESCRIPTORS:
 MAJOR CONCEPTS: Methods and Techniques; Molecular Genetics (Biochemistry
    and Molecular Biophysics); Tumor Biology
  BICSYSTEMATIC NAMES: Herpesviridae--Animal Viruses, Viruses,
   Microorganisms; Hominidae--Primates, Mammalia, Vertebrata, Chordata,
    Animalia; Muridae--Rodentia, Manmalia, Vertebrata, Chordata, Animalia
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JOURNAL: Immunology 98 [2]:p303-311 Oct., 1999 ISSN: 0019-2805 DO NUMENT TYPE: Article REMED TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English

ABJIRACI: CD9 $^\prime$ is a newly identified, activation-associated human legacity ϵ and ugen with sower putative transmembrane domains. It has an extended extracellular segment containing several adhesion molecule structure rotifs, and has been shown to interact with the human complement regulator, decay-accelerating factor (DAF, CD55). To understand further the interaction between CD97 and DAF, as well as the structure and :Unstion of CD97 in general, we have cloned the mouse CD97 cDNA and studied the encoded protein for its membrane association property and ability to interact specifically with the murine decay-accelerating factor. The full-length mouse CD97 cDNA that we have cloned and characterized encodes a protein that is 60% identical to the three epidermal growth factor (EGF) domain-containing form of human CD97 but does not contain the Arg-Gly-Asp (RGD) motif which is present in human CDB. Two other alternatively spliced forms of mouse CLPT were also identified. These forms differ by the number of ESF-like sequence repeats present in the N-terminal region. Northern blot analysis revealed that CD97 is expressed widely in mouse tissues and in resting as well as activated cultured mouse splenocytes. Transient transfection of human embryonic kudney (HEK) 293 dells with the mouse CD97 cDMA in a green-fluorescence protein vector (pEGFP-N1) showed plasma membrane targeting of the expressed protein. Western blot analysis confirmed its membrane association and identified the existence of a probessed C-terminal fragment, supporting the notion that CD3 $^{\circ}$ on the cell mesorane us composed of post-translationally generated subunits. Adnesity studies demonstrated that normal, but not DAF knockout mouse enythropytes and splendoytes adhered to mouse CD97-transfected HEK cells. The interaction

or IDA' and DAF was round to be species-rectriction on erythropytes were unable to bination holes the -transferred HEE Solid. These results insidate that the general structure, regrane associable property and DAF-binding ability is 31 % are conserved and that the adhesive interaction between CDV and DAF is independent of the RGD motif. The finding that CD97 is distributed widely arong various modes. tissues suggests that OD97 may have other roles beyond lymph. who activation. REGISTRY NUMBERS: 99085-47-9: DECAY-ACCELERATING FACTOR: 62229-56-9: EPIDERMAL GROWTH FACTOR DESCRIPTORS: MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Cell Biology; Innume System (Chemical Coordination and Homeostasis) BIOLYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Amimalia; Munique--Rodentia, Mammalia, Vertebrata, Chordata, Amimalia OF GAMISMS: 293 cell line (Himinidae) -- human embryonic kidney cells; miuse Muridae: ·F MANISMS: PARTS ETC: erythrocytes--blood and lymphatics; lymphocyte-p.000 and lymphatics, immune system; splenocytes--blood and lymphatics FIRMYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Chordates; Humans; Mammalu; Torhuran Marrais; Noncuman Vertebrates; Frimates; Rodents; V. rtebrates MINIMALS & BIOCHEMICALD: | CDOT--HLA, human, nouse, structural maracterization; arginyl-glycyl-aspartic acid motif; cDMA { complementary DNA); decay-accelerating factor (CD55, DAF)--murine; egudermal growth factor MISCELLAMEDUS TERMS: amino acid sequence; nucleotide sequence CONCERT CODES: 14 1 2 14 1 8 Immuniciony and Immunochemistry-General; Methods Cyt ... tyy and Cytochemistry-Human 1990 Blommerical Studies-General S 1 - 3 Metapolism-General Metabolism; Metabolic Pathways 1:001 Blind, Blood-Forming Organs and Body Fluids-General; Methods BI-SYSTEMATIC COLES: 20015 Hominidae 95375 Muridae 32/9/3 (Item 3 from file: 5) DIALNG'E File 5:Biosis Previews(R) (c 0.002 BIOSIG. All rts. reserv. 1119. (27 BIOSIS NO.: 199799813672 Increased in vitro and in vivo gene transfer by adenovirus vectors containing chimeric fiber proteins. AUTHOR: Wicknem Thomas J(a); Tzeng Edith; Shears Larry L Ii; Roelvink Peter W; Li Yuan; Lee Gai M; Brough Douglas E; Lizonova Alena; Kovesdi Imre AUTHIE ADDRESM: (a) GenVec Inc., 12111 Parklawn Dr., Rockville, MD 20852** JONENAL: Journal of Virology 71 (11):p8221-8229 1991 ISCN: 0022-536X RECORF TYPE: Abstract LATHUMGE: English ABNIRABI: Alteration of the natural tropism of adenovirus (Ad) will permit gene transfer into specific cell types and thereby greatly broaden the scope of target diseases that can be treated by using Ad. We have constructed two Ad vectors which contain modifications to the Ad fiber cost protein that redirect virus binding to either alpha-v integrin (AdZ.F(RGD)) or heparan sulfate 'AdZ.F(pK7)) cellular receptors. These vectors were constructed by a novel method involving E4 rescue of an E4-deficient Ad with a transfer vector containing both the E4 region and the modified fiber gene. Add. RGD conveased gene believe; enjothelial and smooth rusple wells expressing alpha-v integrins. Likewise, AdZ.F(pK7) inpreased transduction 5- to 500-fold in multiple

dell types lacking high levels of Ad firer receptor, including macrophage, endothelial, smooth muscle, fibroblast, and I dells. In

vascular smith ruscle cells of the porcine iliac artery following balloom angioplisty. These vectors may therefore be useful in gene therapy for vascular restensis or for targeting endothelial cells in tundry. Although sinding to the fiber receptor still occurs with these vectors, they demanstrate the feasibility of tissue -specific receptor tarpeting in cells unith express low levels of Ad fiber receptor. REGISTRY NUMBERS: 30 (0-30-3: BEPARAN SULFATE DESTRIPTORT: MATIR TOUTEFILE By themistry and Mileou ar Biophysics; Blood and Lympostics (free port and Circulation); Carolivascolar System (Transport and Troulation); Cel. Biology; Genetics; Infection; Methods and lemnique, ; C. drabiology; Mu. dular System Movement and Support. BI NYNTEMATI' NAMEN: Adenoviridae-- Viruses; Suidae--Artiodactyla, Martialia, Marterrata, Inirdata, Animalia OF DAMISMS: adenovirus (Adenoviridae); pig (Suidae BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA: animals; artiodactyls; ono: dates; marmals; microcrianisms; nonhuman mammals; nonhuman vertebrates; vertebrates; viruses THEMICALS & BIOTEEMICALS: HEPARAM SULPATE MISCELLAMEOUS TERMS: Research Article; ALPHA-INTEGRIN; BALLOON AUGIOPLASTY; BLOCK AND LYMPHATICS; CHIMERIC FIBER PROTEINS; CIRCULATORY SYSTEM; DNA TRANSFER METHOD; ENDOTHERIAL CELL; FIBEOBLAST; GENE THEFAFY DEVELOPMENT; GENE VECTOR; GENETIC METHOD; REPARAN SULFATE; ILIAC AFTERY; IMMUNE SYSTEM; MACFORHAGE; METHODOLOGY; MOLECULAR GENETICS; MUSCULAR SYSTEM; SKELETAL SYSTEM; SMOOTH MUSCLE; T CELL; THEFAPFUTIC METHOD; TISSUE -SPECIFIC RECEPTOR TARGETING; VIRAL TEAMSFECTION: VIRUS CELLULAR RECEPTOR COMMERC CODES: 1996 A. Cyt.logy and Cytomiemistry-Animal 1996 Genetics and Cytogenetics-Ahimal 10090 Singhem.co. Methods-Nucleic Acids, Purines and Pyrimidines Fighten bal Studies-Pictains, Pertices and Amino Acids 10004 11664 Puconomics. Studies-Carbohydrates 14Fil - Cardiovastular System-General; Methods Floatd, Blo b-Forming Organs and Fody Fluids-General; Methods 15001 18) 4 Flood, Flood-Forming Organs and Body Fluids-Blood Cell Studies 1500A Plood, Plood-Forming Organs and Body Fluids-Lymphatic Tissue and Reticularendothelial System 1773 (1) Muscle-General; Methods $\tau_{i} \cap \tau_{i+1} =$ Genetics of Bacteria and Viruses 35506 Virology-Animal Host Viruses 36006 Medical and Clinical Microbiology-Virology BIUSYSTEMATIC CODES: 02601 Adenoviridae (1993-) 85740 Suidae 32/9/4 (Item 4 from file: 5) DIALOG F(File 5:E:osis Proviews(E) (c) 1902 BIOSIS. Al. rts. reserv. 09 11: 144 BI JIS N .: 1995/8220712 A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif. AUTHOF: Mondon Osamu; Muto Akihako; Kajiwara Susumu; Takagi Junichi; Saito Yuji; Enishidi Facus(a) AUTHIF ADDRESS: (a) Dec. Life Sch., Tokyo Inst. Technol., Magatsuta, indiri-ku, Yokohama 227**Japan ISUN: 0378-111 · DOCUMENT TYPE: Article RECORD TYPE: Abstract LAMGUAGE: English

AESTRACT: A cline (designated mfbAc), encoding 2157 amino acids (aa),

addition, AdD.F'pK7) significantly increased gene transfer in $v(v) \in \mathbb{R}$

was isolated from a majure fruiting-body bDNA library of the edible rushi om Destinos edojes. The mikA transmipt waz aronami in mar ne draiting a diex, detect à le la immature draitlair as diex put sepsent la earlier developmental of agent and is the vegetative ryselism. Although care acundant in the pileur than the stipe, hay we levels were told a company of tissue. The medicard MFHL protein (204.5 kla) contained a sell-surface attachment-promoting Arg-Gly-Asp (RGD) motif. MFBA was produced in Escherichia coli using a maltose-binding protein (MBP) furl n vector, but it was cleaved into four tragments even in a protease-deficient nost. A 425-aa MFPA reptide containing the RGD model camed MFBA(532-1006) peptide) was successfully produced using the phase 27 expression system. This MFBA(588-1116) peptide exhibited a bell admesion and spreading activity toward mammalian cells. This activity of the MFBA fragment was competitively inhibited by the Sly-Arg-Gly-Asp-Ser-Pro peptide but not by the Gly-Arg-Gly-Glu-Ser-Pro partide, showing that the RGD moulf of MFBA is essential for the bell-binding activity. DESCRIPTORS: MA TOR CONCEPTS: Biothemistry and Molecular Biophysics; Cell Biology; Wenetics; Membranes (Cell Biology); Molecular Genetics (Biochemistry and Molecular Biophysics:; Reproduction BI WYSIEMWTOO NAMES: Basidiomydetes--Fungi, Plantae; Fungi-Unspecifieh--Fung., Plantae; Mir das--Rodentia, Mammalia, Vertebrata, Chordata, Adomalia R ANISMS: Busidionycetes (Fungi - Unspecified,; Lentinus edudes

- .bas.diomydetes : Muridae (Muridae)
- BIO.YSTEMATIC CLASSIFICATION (SUPER TAXA): animals; chordates; fungi; nummals; nuoroorganisms; nonhuman mammals; nonhuman vertebrates; nonvastilar plants; plants; rodents; vertebrates
- MOLETULAR SEQUENCE DATABANK NUMBER: amino acid sequence; molecular sequen $arphi_0$ asta; mucleomide sequence; DIBJ-D01209; EMBL-D01209; GEMBANK-D01203
 - HIL ELLAHEDUS PERMS: CIMPLEMENTARY DNA ; GILL TISSUE ; MOUSE B16 MALLIS; PILEUS; RGD MUTIF; SPREADING ACTIVITY; STIPE; TISSUE SPECIFIC GENE EXPRESSION

CONCEPT COLES:

- Cytology and Cytochemistry-Plant
- 6.054.6 Cytology and Cytochemistry-Animal
- 1-3000 Genetics and Cytogenetics-Plant
- 10 02 Electhemical Studies-Nucleic Acids, Purines and Pyrimidines
- 10064 Elechemical Studies-Proteins, Peptides and Amino Acids
- 163.00 Feels sation, Transcription, Translation
- F 19-Buoghysics-Membrane Phenomena
- ÉÍF1% Flant Physiclogy, Biochemistry and Biophysics-Reproduction
- 1111 Frank Physiology, Biochemistry and Biophysics-Chemical Constituents

BICKTATERRATIC CODES:

- 1534 Basidiomydetes
- ٠,٠٠١ ع Muridae

32/9/5 (Item 5 from file: 5)

DIAL C R:File S:Biosis Previews(R) (c) 1 (2 B1(31F. All rts. reserv.

09663741 FIGSIS NC.: 199598118709

Recombinant Domain III of Perlecan Promotes Cell Attachment through Its RGDS Sequence.

AUTHOF: Chakravarti Shukti; Horchar Teresa; Jefferson Bahiyyah; Laurie Germon W; Hassell John R(a)

AUTHOR ADDRESS: (a)Dep. Cphthalmol., Univ. Pittsburgh Sch. Med., Eye Ear Inst., 203 Lethrop St., Pittsburgh, PA 152**USA

OVENED: Journal of Biological Chemistry 200 /10:p404-409 1995

iadh: 0021-9258 Document Type: Art.sie RECORD TYPE: Abstract

LANGUAGE: English

APSTRACT: Perlegan has been previously been shown to support attachment a wide variety of cells through interactions of its core protein with the cell surface. The core protein domains involved in cell adhesion are, nowever, inknown. The laminin-like domain III of murine perlegan contains an FIDS sequence and is a likely candidate for supporting integrin-mediated bell attachment. We made a obMA construct corresponding tit dimain. III and eintaining an in frame signal peptide at the 5t end as Well as it from a state of the at the A' energy using SINA energy because the perfect of the per 3 -what stoom to was function from the region. The size of prote by ingments produced by dijection with We protease as well as analysis of the rotary anadowed image of the recombinant protein indicated it was pr ploed in a native conformation. Recombinant domain !!! coated on tissue filture lishes, supports a mesion of an epithelial-like monomorphism of the filter for the monomorphism of the filter for the filter f interact...n was inhibited specifically by the RGDS synthetic peptide and intact perletan, but not laminin. This domain III RGD -dependent well atta.hmev: activity indicates a role for perlecan in integrin-mediated signaling. REGISTRY NUMBERS: 153-87-7Q: INTEGRIN; 60791-49-3Q: INTEGRIN MAJOF COUCEPTS: Cell Biology; Genetics; Membranes (Cell Biology); Hetabolism BIGSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Amimalia ORGANISMO: human (Hominidae) BUISYSTEMATIC CLASSIFICATION (SUPER TAXA): animals; chordates; humans; farmal, ; prinates; vertebrates SHESSICAL: & RICCHEMICALS: UNIEGRIN HUDGELLANEOUS TERMS: | D MPHEMENTARY | DNA ; HT1080 CELL SINE; INTEGRIN-MERCIATED SIGNALLING; PERLECAN CONCEPT COLES: .fl- Cytolicay and Cytochemistry-Human Generics and Cytogenetics-Human Pulphysuds-Membrane Phenomena Metabolism-Proteins, Peptides and Adding

Let 1: Metabolism-Nucleic Acids, Purines and Pyrimidines

Metabolism-Nucleic Acids, Purines and Pyrimidines

Metabolism-Nucleic Acids, Purines and Pyrimidines

Metabolism-Nucleic Acids, Purines and Pyrimidines line. Prochemical Studies-Mucleic Acids, Purines and Pyrimidines Finchesabal Studies-Proteins, Peptides and Amino Acids J 1 200 4 10165 Erroherabal Studies-Carbohydrates BIDSYSTEMATIC CODES: **WOLLS** Hominidae 32/9/6 (Item 1 from file: 155) DIALOG'E) File 158: MEDLINE (F) 12 de8 % - 21843824 - FMLD: 11857901 Potential tumor-targeting peptide water of histidylated oligolysine conjugated to a tumor-homing RGD motif.

Lose Sy Essays Sy Pawe Sy Piyesawa K The Second Department of Internal Medicine, Shinshu University School of Mediatine, Natsumite, Capar. yaoki55@hsp.md.shinshu-u.ac.jp Cancer gene therapy (Engwand) Oct 2001, 8 (10) p783-7, (23% 09.9-1913 Journal Code: 9432230 Tocument type: Journal Article Dangiages: EMGLICH Main Citation Owner: MIM Remord type: Dampleted Subfile: INDEX MEDICUS We have developed a potential tumor-targeting peptide vector (cRGD-hK) that is intended to be systemically and repeatedly administered to patients with savenced solid tumors. The peptide vector of 36 1-amino abid residues, TRGDCF(F[H-]FFF)6, comprises a tumor-homing RGD motif, a DNA

-binding cligolysine, and histidyl residues to facilitate the delivery into the cytosol. Using cytomegalovirus-driven luciferase expression plasmids as

and partreating farmer set. These transfers in with the definite in a many partreating farmer set. These transfers in with the definite interpretation planes (molar ratio 400 :1 was inhibited by a minimizating farmer all all and inhibitor of the vacuolar ATFase chair mal proton pump, or locating that the three elements of deficient alphaymeta3 antagonist, indicating that the three elements of deficient alphaymeta3 antagonist, indicating that the three elements of deficient alphaymeta3 antagonist, indicating that the three elements of deficient former as experted, at least in vitron in the mide pearing tumors created by substanceus incomination, in inference activity in the tumor tissues 4% hours after the infertion of the RRGD-hR plasmid complexes through the tail veinor midral planes in permouse) was significantly higher than that in the liver. Although the latter difference was small, we propose a potential nonviral gene therapy for advanced solid tumors through use of the tumor-targeting peptide vector. Tags: Animal; Human; Male; Support, Non-U.S. Gov't

Descriptors: Gene Therapy--methods--MT; *Genetic Vectors; *Histidine; *Liver Neoplasms, Experimental--therapy--TH; *Oligopeptides--genetics--GE; *Pandreatic Neoplasms--therapy--TH; * Polylysine --genetics--GE; Antibibitids, Matrolide--pharmacology--PD; Enzyme Inhibitors--pharmacology--P1; Liver Neoplasms, Experimental--metabolism--ME; Liver Neoplasms, Experimental--metabolism--ME; Liver Neoplasms, Experimental--metabolism--ME; Mice; Mice; Inbred BALE '; Mice, Nide; Cligo:eptides--pharmacokinetics--PK; Pandreatic Neoplasms--retabolism--ME; Pandreatic Neoplasms--retabolism--ME; Pandreatic Neoplasms--purpology--PA; Discribe: Polylysine --ptarmacokinetics--EF; Frien-Transleasing ATT arestable; Polylysine --ptarmacokinetics--EF; Frien-Transleasing ATT arestable; Cultures

TAS Registry No.: 0 (Antibictics, Macrolide); 0 (Enzyme Inhibitors); 0 (Genetic Vectors); 0 (Oligopeptides); 0 (Plasmids); 25104-18-1 (Fellylysine); 71-00-1 (Histidine); 88899-55-2 (bafilomysin Alf; 99136-31-1 (arginyl-glycyl-aspartic acid) Frayro No.: EC 1.11.12.- (Luciferase); EC 3.6.3.14 (Freten-Translocating ATPases)

eranon-khanslopating ATPases) Redord Date Created: 20011031

32/9/7 (Item 2 from file: 155)

DTALOGOR) File 155: MEDLINE (R)

C8423136 95172398 PMID: 7867945

A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif.

Fondah C; Muto A; Kajiwara S; Tahagi J; Saito Y; Shishido K

Department of Life Science, Tokyo Institute of Technology, Yokohama, Japan.

Dene NFTHERLANDS) Feb 27 1995, 184 (1) p31-7, ISSN 0378-1119 Journal Code: 7706761

Dodument type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM Record type: Completed Sucfile: INDEX MEDICUS

A cDNA clone (designated mfoAc), encoding 2157 amino acids (aa', was isolated from a mature fruiting-body cDNA library of the edible mushrom Lentinus edodes. The mfcA transcript was abundant in mature fruiting bodies, detectable in immature fruiting bodies but absent in earlier developmental stages and in the vegetative mycelium. Although more abundant in the pileus than the stipe, only low levels were found in the gill tissue. The deduced MFBA protein (234.5 kDa) contained a cell-surface attachment-promoting Arg-Gly-Asp (RGD) motif. MFBA was produced in Escherichia cell using a maltose-binding protein (MBP) fusion vector, but it was cleaved into four fragments even in a protease-deficient host. A 425-aa MFBA peptide containing the RGD motif (named MFBA(582-1006) peptide) was successfully produced using the phage TT expression system. This MFBA 532-1006, peptide exhibited a cell adhesion and spreading activity toward mammalian cells. This activity of the MFBA fragment was competitively inhibited by the Bly-Arg-Bly-Asp-Cer-Fro peptide by the Gly-Arg-Bly-Glu-Ser-Pro peptide, showing that the RGD motif of MFBA is essential for the cell-binding activity.

II collagen antibody-induced arthritis in mice. Apr 2 2002

Tags: Animal; Support, Non-U.S. Sevin; Aupport, T.S. Havir, F.H.A. Descriptors: *Arthritis--pathology--FA; *Cartilage, Artivolar--pathology --PA; *Collager Type II--immunology--IM; *Cial alymatrothins--physic by --PH; Apoptosis; Arthritis--metabolism--MH; On hirolytes--path 1 py--1A; hipopolysaccharides--pharmacology--PD; Mice; Mice, Inbred C57bb; Neovascularization, Pathologic -- prevention and control -- PC; Sialogly: proteins--deficiency--DF; Tumor Necrosis Factor--biosynthesis--BI CAS Fegistry No.: 0 (Collager Type II); 0 (Lipopolysaccharides); 0 (Sialoglycopreteins); 1 (Tumor Mecrosis Factor); 106441-73-1 losteepentin:

(Item 6 from file: 155) 17/8/41 lighting file Militaring a

1308535. .117774. PMID: 11920637

alpha v-Integrin antagonist EMD 121974 induces apoptosis in brain tumor cells growing on vitronectin and tenascin. Apr 11 2002

Tags: Animal; Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S. [lescriptors: *Apoptosis--drug effects--DE; *Brain Neoplasms--pathology --FA; *Glieblastema--pathology--PA; *Integrins--antagonists and innibitors --AI; *Medulloblastema--pathology--PA; *Peptides, Cyclic--pharmacology--FD; *Receptors, Vitronectin--antagonists and inhibitors--AI; Brain Neoplasms --metabolism--ME; Cell Adhesion--drug effects--DE; Cell Division--drug effects--DE: Collagen--metabolism--ME: Flow Cytometry: Fluorescent Antibody Technique: Glicblastoma--metabilism--ME: Immundensyme Techniques: In Situ Nick-End Labeling; Integrins--metabolism--ME; Medulloblastoma--metabolism--ME; Mide; Mide; Nude; Receptors, Vitronectin--metabolism--ME; Tenascin --metabolism--ME; Tumor Cells, Cultured--drug effects--DE; Tumor Cells, Cultured--pathology--PA; Cultured--metabolism--ME; Tumor Cells, Mitronectin--matabolism--ME CAS Registry No.: 0 (EME) 121974); 0 (Integrins); 0 (Peptides, Cyrlis); 0 (Receptors, Vitronectin); 0 (Tenascin); 0 (Vitronectin); 0

Ointearin alphaVheta5:; 2007-13-5 (Collagen)

(Item 7 from file: 155) 17/8/42 DIALOG(P) File [188:MEDLINE(E)

13010034 21652405 EMID: 11792158

Preparation and functional evaluation of RGD -modified proteins as alpha(v)beta(3) integrin directed therapeutics.

Jan-Feb 2002

Tags: Human

Descriptors: Angiogenesis Inhibitors--chemical synthesis--CS; Angiogenesis Innibitors--pharmacology--PD; Oligopeptides--chemistry--CH; Vitrineitin--drug effects--DE; Cell Adhesion--drug Chrimatigraphy, Gel; Electrophoresis, Polyadrylamide Gel; Endothelium, Vascular--drug offects--DE; Endothelium, Vascular--metabolism--ME; Immunoalobulin G---memistry--CH; Peptides--chemistry--CH CAS Registry No.: 0 Angitgenesis Inhibitors); 0 (Immunoglobulin G); 0 (edigopeptides); 0 (Feptides); 0 (Proteins); 0 (Receptors, Vittore tin; 19890-88-0 (arginyl-glypyl-aspartic acid)

17/8/43 (Item 8 from file: 155) DIALOG(E) File 155:MEDLINE E)

12997548 21863658 PMID: 11875744

Inhibition of the alpha-nu integrins with a cyclic RGD peptide impairs angiogenesis , growth and metastasis of solid tumours in vivo. Mar 4 2002

Tags: Animal; Male

Descriptors: *Antigens, CU--pharmacology--PD; *Antineoplastic Agents

--pharmacology--PD; *Molanoma--pathology--FA; theovasiularidation, Pathologic; *Oligopeptides--pharmacology--PD; *Skin Neoplasms--pathology--PA; Endothelium--cytology--CY; Endothelium--pathology--PA; Hamsters; Infusions, Farenteral; Leukocytes--immunology--IM; Microsir valation; Meoplasm Metastasis; Neoplasms, Experimental CAS Registry No.: 6 (Antiques, CD); 5 (Antiheoplastic Agents; CD); 5 (Integrin Application); 10 (Inte

17/8/44 (Item 9 from file: 155)

DIALOG'R) File 155: MEDLINE (R)

1295:11: 21637:5: PMID: 11779085

Integrins as targets of angiogenesis inhibition.

Nov-Det 2001

Tags: Animal; Human

Descriptors: Angiogenesis Inhibitors--therapeutic use--TU; *Antineoplastic Agents--therapeutic use--TU; *Receptors, Vitronectin --antagonists and inhibitors--AI; Drug Design; Neovascularization, Pathologic--metabolism--ME; Neovascularization, Pathologic--pathology--PA; Oligopeptides--antagonists and inhibitors--AI

DAS Registry No.: 0 (Angiogenesis Inhibitors); 0 (Antineoplastic Aq4nts); 0 (Oligopeptides); 0 (Receptors, Vitroneutin); 99896-85-2 (arginyl-glypyl-aspartic apid)

17/8/45 (Item 10 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

13901415 21581212 PMID: 11723742

Inhibition of hepatic metastasis in mice treated with cell-binding domain of human fibronectin and angiogenesis inhibitor TNP-470.

Tags: Animal; Male; Support, Non-U.S. Gov't

Descriptors: Angiogenesis Inhibitors-therapeutic use-TU; *Colorectal Netplasms; *Fibromettims-themistry-CH; *Liver Neoplasms-prevention and control-PC; *Liver Neoplasms-secondary-SC; *Oligopeptides-therapeutic use-TU; *Sesquiterpones-therapeutic use-TU; Disease Models, Animal; Mice; Tumor Cells, Cultured

CAS Registry No.: 0 (Angiogenesis Inhibitors); C (Fibronectins); 0 (Oligopeptides); C (Sesquiterpenes); 129298-91-5 (O-(chloroacetylcarbam oyl)fumagillol;

17/8/46 (Item 11 from file: 155)

DIALOG(R) File 158:MECLINE(R:

12816016 21648242 PMID: 11788463

Shear stress-induced endothelial cell migration involves integrin signaling via the fibronectin receptor subunits alpha(5) and beta(1). Fig. 2002

Tags: Human; Support, Non-U.S. Gov't

Descriptors: *1-Phosphatidylinositol 3-Kinase--metabolism--ME; *Cell Movement--physiology--PH; *Endothelium, Vascular--physiology--PH; *Hemorheo logy; *Mitogen-Activated Protein Kinases--metabolism--ME; *Protein-Tyroxine Kinase--metabolism--ME; *Receptors, Fibronectin--physiology--PH; *Receptors, Vitronectin--physiology--PH; Cells, Cultured; Endothelium, Vascular --pytology--CY; Phosphorylation; Signal Transduction; Umbilical Velns --pytology--CY; Up-Regulation

CAS Registry No.:) (Receptors, Fibronectin); 0 (Receptors, Vitronectin)

Enzyme No.: EC 2.7.1.- (Mitogen-Activated Protein Kinases); EC 2.7.1.(endogenous substrate pp120); EC 2.7.1.112 (Protein-Tyrosine Kinase); EC 2.7.1.137 (1-Phosphatidylinositol 3-Kinase)

12150057 31617165 PMID: 11741585

Domain IVa of laminin alpha5 chain is cell-adhesive and binds beta1 and alphaVbeta3 integrins through Arg-Gly-Asp. Decr. 7-2001

Tags: Animal; Human; Support, Non-11.3. Gov't

Descriptors: *Antigens, CD29-metabolism-ME; *Coll Adhesion Molecules -metabolism-ME; *Laminin-metabolism-ME; *Coll preprides-metabolism-ME; *Receptors, Vitronectin-metabolism-ME; Binding Sites; Cell Adhesion; Cell Adhesion Molecules-genetics-GE; Cell Adhesion Molecules-isolation and parification-IP; Kidney-bytology-CY; Laminin-genetics-GE; Laminin-isolation and purification-IP; Melanoma, Emperimental; Mice; Muscle, Skeletal-bytology-CY; Peptide Fragments-genetics-GE; Peptide Fragments-isolation and purification-IP; Peptide Fragments-metabolism-ME; Protein Structure, Tertiary; Recombinant Proteins-metabolism-ME (ASS Reg.stry No.: 0 (Antigens, CD29); 0 (Cell Adhesion Molecules); 0 (Laminin); 0 Oligopeptines); 0 (Peptide Fragments); 0 (Receptors, Vitronectin; 0 (Recombinant Proteins); 0 laminin alpha81; 99836-si-h

17/8/48 (Item 13 from file: 155)

Warpinyl- s.yoyl-aspartic acid;

DIALOG(R) File 15%: MEDLINE(R)

Suppression of murine collagen-induced arthritis by targeted apoptosis of synovial neovasculature.
2001

Tags: Animal; Male; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S. Descriptors: 'Apoptosis; *Arthritis, Experimental—therapy—TH; *Gene Therapy—methods—MT; *Necvascularization, Pathologic—therapy—TH; *Oligopeptides—pharmacology—PD; *Synovial Membrane—blood supply—BS; Arthritis, Experimental—immunology—IM; Arthritis, Experimental—pathology—PA; Bacteriophage M13—genetics—GE; Binding, Competitive; Collagen; Drig Delivery Systems—methods—MT; In Situ Nick—End Labeling; Integrins—metabolism—ME; Mice; Mice, Inbred DBA; Neovascularization, Sathologic—pathology—PA; Peptide Fragments—pharmacology—PD; Receptors, Vitronectin—metabolism—NA; Synovial Neoprane—immunology—IM CAS Fegistry No.: 0 (Integrins); 0 (Oligopeptides); 0 (Peptide Fragments); 1 Receptors, Vitronectin); 0 (integrin alphaVbeta5); 9:107—34—5 (Collagen); 9:3996—35—2 (arginyl—glycyl—aspartic acid)

17/8/49 (Item 14 from file: 155)

DIALOG(F)File 15::MEDLINE(R)

A novel synthetic Arg-Gly-Asp-containing peptide cyclo(-RGDf==V-) is the potent inhibitor of angiogenesis . Nov 2-2001

Tags: Animal; Human; Male; Support, Non-U.S. Gov't

Descriptors: *Endothelium, Vascular--drug effects--DE; *Necvascularization, Pathologic--pathology--PA; *Oligopeptides--pharmacology--PD; *Peptides, Cyclic--pharmacology--PD; Binding Sites; Cells, Cultured; Disease Models, Animal; Endothelium, Vascular--physiclogy--PH; Mide; Mide; Irbred PALR C; Mide, Nude; Neoplasm Transplantation; Neoplasms, Experimental--drug therapy--DT; Neovascularization, Pathologis--drug therapy--DT; Cligopeptides--therapeutic use--TU; Peptides, Cyclic--therapeutic use--TU; Peptides, Cyclic--therapeutic use--TU (Aligopeptides); Cligopeptides, Cyclic, 90538--50-2 (arginyl-glycyl-aupartic acid)

17/8/50 (Item 15 from file: 155)

DIALOG(R) File 185:MEDLINE(F)

12513267 24333332 PMID: 11440278

Topical application of integrin antagonists inhibits proliferative

retinopathy. May 2001 Tais: Animal; Support, Non-D.M. Gov's Descriptors: *Diabetic Retinopathy--Gray therapy--DT; *O.ly pept. was -- herapeutic use--T"; 'Receptors, Witronectir--antaphists and inhibitors --AI; Adhesiveness; Administration, Topical; Anoxia--pathology--PA; Mite; Mide, Inbred CE7BL; Neovascularization, Fathologic-edrug therapy--CT; Neovascularization, Pathologic--pathology--FA; Oligopertides--administrati on and dosage--AD; Oligoceptides--metabalism--Mb; Qhthalml: foliationar; Retina--metapolism--ME (Oligopeptides,; 1 (Orbithalmic Columbias); . PAR Registry No.: 0 (Remeptors, Witronectin); 99896-85-2 (arginyl-glypyl-ampartit and a 17/8/51 (Item 16 from file: 155) DIALOG(R) File 155: MEDLINE(R) 1133-346 - 31402894 - PMID: 11399763 Extracellular matrix-derived peptide binds to alpha(v)beta(3) integrin and inhibits angiogenesis . Au: . . . 2001 Taple: Animal; Female; Human; Support, Non-U.S. Gov't; Support, U.S. Gow'', P.H.J. Pathwingid: *Neovascullarization, Physiologic: *Receptors, Vitronectin --metabolism--ME; AlkyLation; Amino Acid Sequence; Apoptosis--drug effects --DE; Autoantigens--chemistry--CH; Autoantigens--pharmacology--PD; Carpases--metabolism--ME; Cattle; Cell Cycle--drug effects--DE; Cell Division--drug effects--DE; Cemls, Cultured; Collagen--chemistry--CH; Collagen--pharmacology--ED; Disulfides--metabolism--ME; Endothelium, Activation: Extrabellular Matrix Proteins--chemistry--CH; Mice; Mice, Inbroa C57BL; Molecular Sequence Data; Oxidation-Reduction; Protein Binding ; Forecabinant Proteins--chemistry--CH; Recombinant Proteins--metabolism --ME; Recombinant Proteins--pharmacology--PD; Tumor Cells, Cultured; Vitronectin--metabolism--ME CAS Registry No.: 0 (Autoantigens); 0 (Disulfides); 0 (Extracellular Matrix Proteins); 0 (Goodpasture antigen); 0 (Receptors, Vitronectin); 6 Recombinant Proteins); 0 (Vitronectin); 9007-34-5 (Collagen) Entyme No.: EC 3.4.12.- (CPP32 protein); EC 3.4.22.- (Caspases) 17/8/52 (Item 17 from file: 155) DIAL (F.) File 155:MEDDINE(F) 11-01247 21353555 PMID: 11460496 Role of fibrin matrix in angiogenesis . 2001 Tags: Animal; Human Descriptors: *Fibr.n--physiology--SH; *Neovascularization, Fhysiologic --physiclogy--EH CAS Registry No.: 9.01-31-4 (Fibrin) 17/8/53 (Item 18 from file: 155) DIALOG(R) File 155:MEDLINE(R) 11.90613 21325999 PMID: 11433393 Thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECs and suppresses tumor cell-induced angiogenesis. Au : 1 2001 Tag : Animal; Female; Human wes triptors: "Antibi time, Antifungal--pharma tology--87; *Cell Albesian Molecules--metabolism--ME; *Cytoskeletal Proteins--metabolism--ME; *Endothelium, Vascular--metabolism--ME; *Necvascularization, Pathological-prevention and control--PC; *Phosphoproteins--metabolism--ME; *Pyrrelidinones--pharmacology--PD; *Vitronectin--metabolism--ME; Antibictic

s, Antifungal--isolation and purification--IF; Blotting, Western; Je.: Adhesion--drug effects--DE; Bose-Pesponse Relationship, Drug; Bown-Regulation; Immunoblotting; Mice; Mice, Inbred ICR; Peptides --pharmacology--PD; Platelet Aggregation Innibitors--pharmacology--PL; Brecipitin Tests; Pyrrolidinones--isolation and purification--IF; Reseptors, Vitronectin--metabolism--ME; Tumor Cells, Cultured--irug erreits --DE; Unbillial Veins; Vitronectin--antagonists and inhibitors--Al MAS Registry Modes (Antibiotics Artifice as Artifice). --DE; Unitified Veins; Ditronettin--antagonium and innibitors--a.

"AS Registry Unit (Antibities, Antifungal); (Coll Adhesion Molecules); (Cytoskeletal Proteins); (Cytoske

17/8/54 (Item 19 from file: 155)

DIALDG (R) File 155: MEDLINE (R)

11.148950 21280565 PMID: 11387236

An anguagenic laminin site and its antagonist bind through the alpha(v)beta3 and alpha5beta1 integrins. Jur. 2001

Tags: Animal

Descriptors: *Integrins--metabolism--ME; *Laminin--metabolism--ME; *Neovascularidation, Physiologic--physiology--PH; *Receptors, Laminin --metabolism--ME; *Receptors, Vitronectin--metabolism--ME; Amino Acid Sequence: Apria--growth and development--GD; Binding Sites; Cell Adhesion; Thick Embryo: Fibroblist Growth Factor 2--antagonists and innibitors--AI; Integrins--.mmunology--'M; Laminin--antagonists and inhibitors--Al; Mitogen-Activited Prote n Kinases--metabolism--ME; Molecular Sequence Data; Peptide Framments--antagonists and inhibitors--AI; Peptide Fragments --metakolism--ME; Protein Binding; Rats; Receptors, Laminin--immunology--IM ; Reservors, Vitronestin--immunology--IM WAR Registry No.: ((Integrins); 0 (Laminin); 0 (Peptide Fragments) ; (Receptors, Laminin); 0 (Receptors, Vitronectin); 2 (integrin alpha(betal); 0 (laminin 1); 103107-01-3 (Fibroblast Growth Factor 2) Enzyme No.: EC 2.7.1.- (Mitogen-Activated Protein Kinases)

17/8/55 (Item 20 from file: 155) DIALOG(E) File 155:MEDLINE(E)

11535741 L1349416 PMID: 11352090

Spinal cord repair with PHPMA hydrogel containing RGD peptides (NeuroGel). May 2001

Tags: Animal; Female

Testriptors: *Blocompatible Materials; *Polymethacrylic Ac.ds; *Spinal Cord Injuries--therapy--TH; Animals, Newborn; Biocompatible Materials -- demistry--CH; Hydrogels; Materials Testing; Midroscopy, Electron; Mississopy, Electron, Scanning: Nerve Regeneration; O..gopentides; Polymethacrylic Acids--chemistry--CH; Rats; Rats, Sprague-Dawley; Spinal Cord Injuries--pathology--PA; Spinal Cord Injuries--physiopathology--PP CAS Registry No.: 0 (Biccompatible Materials); 0 (Hydrogels); 0 (Cligopeptides); 0 (Polymethacrylic Acids); 40704-75-4 (Duxon); 99% W-85-2 arginyl-glycyl-aspartic acid)

17/8/56 (Item 21 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

110 6594 H1226771 PMID: 11278365

Identification of the anti-angiogenic site within vascular basement membrane-derived tumstatin.

May 4 **2001**

Tags: Animal; Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S. Pescriptors: Angiogenesis Inhibitors--chemistry--CH; *Autoantigens --chemistry--CH; *Collagen--chemistry--CH; *Endothelium, Vascular -- shemistry--OH; Angiogenesis Inhibitors--isolation and purification--IF;

Autoantigens-genetics-GE; Autoantigens-is at 1 main puritive mass; Easement Membrane-chemistry-CH; Caspanes-meta, lism-ME; Castie; Vell Division; Cell Line; Collagen-genetics-GE; Collagen --Isolation and purification-IP; Endothelium, Vascular-cytology-CY; Endothelium, Vascular-metabolism-ME; Mice; Recombinant Proteins-chemistry-CH; Recombinant Proteins-genetics-GE

CAS Registry No.: 0 (Angiogenesis Inhibitors); 0 (Autoantigens; 6 (Goodpasture antigen); 0 (Recombinant Proteins); 9007-34-5 (Collagen) Encyme No.: EC 3.4.22.- (CPP32 protein); EC 3.4.20.- (Caspases)

17/8/57 (Item 22 from file: 155)

DIALOS E, Frie 185: WHILITE R

1115194 HILLIAM PAIL: 11251/22

Noninvasive imaging of alpha(v)beta3 integrin expression using 18F-labeled RGD -containing glycopeptide and positron emission tomography. Mar 1 2001

Tags: Animal; Female; Human; Support, Non-U.S. Gov't

Descriptors: *DMA-Binding Proteins--genetics--GE; *Fluorine Radioisotopes -- Hagnistic use--DU; *Neoplasms, Experimental--radionuclide imaging--RI; *Radiopharmaceutivals--diagnostic use--DU; *Receptors, Vitrohemin --metabolism--ME; *Transcription Factors--genetics--GE; *Tumor Markers, Biological--metac:lism--ME; Azloes--chemistry--CE; DNA-Binding Proteins --immunclogy--IM; Fibrinogen--matabolism--ME; Isotope Labeling; Melanoma --metab:lism--ME; Melantma--radionuclide imaging--FI; Mice; Mice, Inbred BALB C; M:ce, Mude; Neoplasm Fransplantation; Neoplasms, Experimental --metarulism--ME; Osteosardoma--metabolism--ME; Osteosardoma--radionuclide imaging--RI; Feptides, Cyclic--chemistry--CH; Peptides, Cyclic --pharmacology--FD; Radiopharmaceuticals--chemical synthesis--CS; Radiopha rm:Deutical:--pharmacok.netics--PK; Receptors, Vitronectin--antagonists and inminitors--Al; Tissue Distribution; Temography, Emission-Computed; Transplantation Factors--- Immunology--IM; Transplantation, Heterologous; Tumor Markers, Biological--Antagonists and innihitors--AI; Mitrone min --netapolism--ME

(A2 Registry No.: 0 (A2)des; 0 (DNA-Binding Proteins); C (Fluorine Raditisotopes); 0 (NY-BR-1 protein); 0 (Peptides, Cyclic); C (Radiopharmacouticals); C (Receptors, Vitronectin); 0 (Transcription Factors); 0 (Tumor Markers, Biological); 0 (Vitronectin); 0 (cyclic (arginyl-glycyl-aspartyl-phenylalanyl-lysyl)); C (cyclo(arginyl-glycyl-aspartyl-phenylalanyl-valyl); 178181-33-4 (4-nitrophenyl 2-fluoropropionate); 4001-32-5 (Fibrinogen)

17/8/58 (Item 23 from file: 155)

DIALOG(R) File 155:MELLINE(R)

Aberrant fibrin formation and cross-linking of fibrinogen Nieuwegein, a variant with a shortened Aalpha-chain, alters endothelial capillary tube formation.

Feb 15 2001

Tags: Case Report; Human; Male

Descriptors: *A:tbrinogenomia--genetics--GE; *Capillaries--pathology--FA; *Endethelium, Mascular--ultrastructure--"I; *Fibrin--ultrastructure--"I; *Fibrin-cqens, Abnormal--chem.stry--CB; *Mutagenesis, Insertical; *Medvascularizatien, Physiolog.c--genetics--GE; Adult; Afibrinogenemia--pathology--PA; Ricpolymers; Cells, Cultured; Codon, Terminator; Exons--genetics--GE; Fibrin--biosynthesis--BI; Fibrin--chemistry--CH; Fibrinogens, Abnormal--gwnetics--GE; Microscopy, Electron; Molecular Weight; Cligopeptides--physiology--PH; Partial Thromboplastin Time; Receptors, Vitronectin--irmunology--IM; Receptors, Vitronectin--physiology--PH; Sequence Deletion; Structure-Activity Relationship; Transglutam.nawes---metabolism--ME

CAS Registry No.: 0 (Biopolymers); 0 (Codon, Terminator; 0 (Fibrinogens, Abnormal); 0 (Oligopeptides); 0 (Receptors, Vitronemin; 0 (fibrinogen Nieuwegein); 9001-31-4 (Fibrin); 99896-88-2 (arginyl-glycyl-aspartic acid)

```
17/8/59 (Item 24 from file: 155)
DIALOG R)File 155:MEDLINE(R)

11085295 21084280 PMID: 11216533
```

Glycosylated EGD -containing peptides: tracer for tumor targeting and ang. Equation imaging with improved biokinetics. Feb. 2001

Tags: Animal; Human; Support, Non-U.S. Prott Descriptors: *Melanoma, Experimental--radionuclide imaginy--Ri; *Neoral culturation, Pathologic -- radionoclide imaging -- RI; *Cligopoptide. --diagnostic use--DT; teste var cra--radicionidae Extrabellular Matrix Protein: --metabolism--ME; Glyposylation; Integrine --metabolism--ME; Iodine Radioisotopes--diagnostic use--DU; Melanoma, Experimental--metabolism--ME; Mice; Mice, Inbred BALB C; Mice, Nude; Necplasm Transplantation; Oligopeptides--chemical synthesis--CS; Oligopeptides--pharmapokinetias--PK; Osteosarcoma--blood supply--BS; Dstepsarcoma--metabolism--ME; Receptors, Vitronectin--metabolism--ME CAS Registry No.: 0 (Extracellular Matrix Proteins); 0 (Integrins); 0 (Indine Radioisatopes); 0 (Oligopeptides); 0 (Receptors, Vitronequin); arminyl-g.ycyl-ampartic acid; 99336-85-2

17/8/60 (Item 1 from file: 172)
DIALOG(E)File 172:(c) 2002 Elsevier Science B.V. All rts. reserv.

(2675015 EMBASE No: 2002337232

Plasmin-induced migration of endothelial cells: A potential target for the anti- angiogenic action of angiostatin 2002

17/8/61 (Item 2 from file: 172)
DIAL G.E.) File 171: [7] 1(00) Elsevier Science B.V. All rts. reserv.

0.162 560 EMBASE No: 0.001279982

Ligand-targeted liposomes directed against pathological vasculature 2002

AUTHOF KEYWORD: Anglogenesis; Integrins; RGD -peptide; Drug targeting; Liposcmes

17/8/62 (Item 3 from file: 172)

EMALOG(F) File 177:(c) LOOK Elsevier Science B.V. All rts. reserv.

CL611437 EMBASE No: 2001269709

Ligands to the integrin receptor alphaSUBvbetaSUB3 2002

AUTHOF KEYWORDS: alphaSUBvbetaSUB3 integrin; Angiogenesis; Arthritis; Ecne resorption; Osteoclast; Osteoporosis; Vitronectin receptor

17/8/63 (Item 4 from file: 172)

DIALOG(F) File 177:(f) 2002 Elsovier Science B.V. All rts. reserv.

02128336 EMBASE No: 2001230789

Thiolutin, an inhibitor of huvec adhesion to vitronectin, reduces paxillin in huvecs and suppresses tumor cell-induced angiogenesis 2001

ANTHOR MEYWORDS: Thiolutin; Pawillin; HINEO; Vitronentin; Tumur angiogenesis

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15131 A.SN 13763 .313 ?s an:ingen? and ("wer ash ser" or "ser glr ser") 343. ANGIDGEN? CER ASN SER SER WILL SEE LIGIDORNY ZIU ("SER NOU CER" OF "LEF IN CER", ?s and gen? and "" er-asm-ser" or "ser-gin-ser") ANDIDGEN? 3621 SER-ASN-SER SFE-GLN-SER - - ANGIOGEN? AND ("SER-ASN-SER" OR "SER-GLH-SER") Ts and ogen? and ("ens" on "sgs") 36:27 ANGICSENT 1749 813 75 893 1 ANGICGENY AND ("SNS" OR "SQS") ?type sil/full/all 21/9/1 (Item 1 from file: 5) DIALOG(F)File 5:B:csis Previews(R) (c. 2002 BIOSIS, All rts, reserv. 12364000 BIOSIS No.: 200000011 1508 Generation of expression plasmids for angiostatin, endostatin and TIMP-2 for cancer gene therapy. AUTHOR: Indraectlo S(a); Minuszo S; Gola E; Habeler W; Carrozzino F; Noonan I; Allini A; Cant: L; Amadori A; Chieco-Bianchi L AUTHOF ADDRESS: (a) Lipartimento di Oncologia e Scienze Chirargiche, Università di Padeva, Via Guttamelata, 64, 35128, Padeva**Italy COUFNAL: International Journal of Biological Markers 14 (4):p251-256 Cat.-Dec., 1939 ISSN: 0393-6155 DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGF: English SUMMARY LANGUAGE: English ABSTRACT: Antiangiogenic therapy may represent a promising approach to cancer treatment. Indeed, the efficacy of endogenous angiogenesis inhibitors, including angiostatin, enjostatin and TIMPs, has been demonstrated in many types of solid timors in animal models. In view of the possible problems associated with long-term administration of inhibitors as recombinant proteins, we propose their delivery as nucleic acids through a gene therapy approach. To this end, elkaryotic expression constructs for murine angiostatin and endostatin as well as human TIMP-2 were generated, and characterized in vitro. All constructs carry the relevant ofNAs under the control of the strong HOMV promoter, enhancer, and bleavable leader signals to allow protein secretion. Expression of the anglogenesis innuritees was detected by in vitro transcription/translation emptriments as well as transfection of 293T cells, followed by Western il tting WB or raduoimmunoprecipitation analysis of both cell lysates and supernatants [SNs]. These constructs right be used for in vivo intramuscular delivery of plasmid DNA and as a set of reagents for the development of retroviral as well as adence associated wiral (AAV vectors expressing angiogenesis inhicitors. DESCRIPTORS: MAJOR CONCEPTS: Cardityascular Medicine (Human Medicine, Medical Sciences); Chooligy (Human Medicine, Medical Sciences); Pharmacology FIGSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Farroviridae--Animal Viruses, Viruses, Microorganisms; Retroviridae -- Animal Viruses, Viruses, Microorganisms OFGANISMS: adeno-associated virus (Parvoviridae) -- gene vector; human Hominidae:; retrovirus (Retroviridae) -- gene vector

BIOSYSTEMATIC CLASSIFICATION (SUPER TAMA): Animal Miruses; Animals;

Chordates; Humans; Mammale; Microor sallshs; Film res; Vertebrace; Viruses CHEMICALS & BIOCHEMICALS: TIME-2; andiestatin; endostatin; express n plasmids METHODS & EQUIPMENT: cancer gene therapy-gene therapy method MISCELLAMEOUS TERMS: tumor angiogenesis CONCEPT CODES: 34:013 Neoplasms and Neoplastic Agents-Therapeutic Agents; Therapy 33513 Genetics and Cytogenetics-Human 10 64 Biochemidal Studies-Proteins, legaides and Amino Addis 112 - 1 2 Payhology, General and Miscellureous-Therapy (1971-) Geretics of Kapteria and Viruses Mardiova z Jan Lyster-Blood New Graphars Lay charmadology= farol mascular System BIOSTAFEMATIC CODES: (2013) | Partotiridae (1093-12 6.2 3 Retroviridae (1993- : 86215 Hominidae 21/9/2 (Item 1 from file: 155) DIALOG(R) File 155:MEDLINE(R) 10593535 .0134351 PMIE: 10669955 Generation of expression plasmids for angiostatin, endostatin and TIMP-2 for cancer gene therapy. Indraccole S; Minuzzo S; Gola E; Habeler W; Carrozzino F; Noonan D; Albini A; Santi L; Amadori A; Chieco-Bianchi L IST-Biotechnology Section, Padova, Italy. indra@uxl.unipd.it International journal of biological markers (ITALY) Oct-Dec 1999, 14 (4) p251--, ISSN 0393-6155 Journal Code: 8712411 Conument type: Journal Article Tanguages: ENGLIGH Main Sitation Owner: MLM Ferond type: Completed Surfile: INDEX MEDICUS Antianglowenic therapy may represent a promising approach to cancer treatment. Indeed, the efficacy of endogenous angiogenesis inhibitors, including anglostatin, endostatin and TIMPs, has been demonstrated in many tyres of solid tuning in animal models. In view of the possible problems associated with long-term administration of inhibitors as recombinant proteins, we propose their delivery as nucleic acids through a gene therapy approach. To this end, eukaryotic empression constructs for musine anglistatin and endistatin as well as human TIMP-2 were generated, and characterized in vitre. All constructs carry the relevant cDNAs under the control of the strong ECMV promoter/enhancer, and cleavable leader signals to allow protein secretion. Expression of the angiogenesis inhibitors was detected by in vitro transcription/translation experiments as well as transfection of 200T cells, followed by Western blotting (WB) or raditimmunity recipitation analysis of both cell lysates and supernatants (SNs 1. These constructs might be used for in vivo intramuscular delivery of plasmid CNA and as a set of reagents for the development of retroviral as well as adeno-associated viral (AAV) vectors expressing angiogenesis inh.bitors. Tais: Human; Support, Non-T.O. Govit Te scriptors: Angiogenesis innibitors - whetirs - Why *Collegen - report of --CE: 'Gene Therapy: 'Neoplasms--therapy--TH: 'Poptide Fragments--genetics *Plasmids; *Plasminogen--genetics--GE; *Tissue Inhibitor-of Metalloproteinase-1--genetics--GE; Transfection CAS Fegistry No.: [(Angiogenesis Inhibitors); 0 (Peptide Fragments ; (endostatin); 127497-59-0 (Tissue Inhipitor-of (Plasmids ;] Metalloproteinase-1); 86090-08-6 (angiostatin); 9001-91-6 (Plasmington ; 9007-34-5 (Col.ager) Record Date Treated: 20000224 ?s angiogen? and rog and websor or ona or rha 3681 ANGICGENS 100 KDG 149113 VECTOR

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            (Item 1 from file: 5)
 26/8/1
          BIOSIS No.: 200100536977
13329828
Potential tumor-targeting peptide vector of histidylated oligolysine
  conjugated to a tumor-homing RGD motif.
2001
             (Item 2 from file: 5)
 26/8/2
           BIOSIS NO.: 200000003216
Structural characterization of mouse CD97 and study of its specific
  interaction with the murine decay-accelerating factor (DAF, CD55).
1999
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26/8/3

11192527

(Item 3 from file: 5)
BIOSIS NO.: 199799813672

Increased in vitro and in vivo gene transfer by adenovirus vectors containing chimeric fiber proteins.

26/8/4 (Item 4 from file: 5) 09765794 BIOSIS NO.: 199690220712

A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif.

1995

26/8/5 (Item 5 from file: 5) BIOSIS NO.: 199198118709 59653791

Recombinant Domain III of Perlecan Promotes Cell Attachment through Its RGDS Sequence.

1995

26/8/6 (Item 1 from file: 155)

DIALDG(R) File 155:MEDLINE(F)

12708373 21543320 PMID: 11687901

Potential tumor-targeting peptide vector of histidylated oligolysine conjugated to a tumor-homing $$\rm POD$$ motif.

Odt [1001

Tags: Animal; Human; Male; Support, Non-U.S. Gov't

Descriptors: *Gene Therapy--methods--MT; *Genetic Vectors; *Histidine; *Liver Neoplasms, Experimental -- therapy -- TH; *Oligopeptides -- genetics -- GE; 'Par. reatic Neoplayms -- therapy -- TH; 'Polylysine -- genetics -- GE; Antibiotics, Macrolide--pharmacology--Pl; Enzyme Inhibitors--pharmacology--PD; Liver Neiplasms, Experimental--metabolism--ME; Liver Neoplasms, Experimental --pathology--PA; Nuciferase--metabolism--ME; Mice; Mice, Inored BALB O; Mice, Nucle; Oligopeptides--pharmacokinotics--PK; Pancreatic Neoplaces --metabolism--ME; Pandreatic Neoplasms--pathology--FA; Flasming; Polylysine--pharmacokinetics--PH; Proton-Translocating ATPases--antagon.sts and inhibitors--AI; Tissue Distribution; Tumor Cells, Cultured CAS Registry No.: 0 (Antibiotics, Macrolide); 0 (Enzyme Inhibitors); (Genetic Vectors); (Oligopeptides); (Plasmids); 25104-19-1 (Folylysine); 71-00-1 (Histidine); 88899-55-2 (bafilomycin A1); 39836-85-2 (arginyl-glycyl-aspartic acid) Enzyme No.: EC 1.13.12.- (Luciferase); EC 3.6.3.14 (Erston-Translocating ATPases)

26/8/7 (Item 2 from file: 155)

DIALOG(E) File 158:MFDLINE(E)

08423136 96172398 PMID: 7867945

A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif.

Feb 37 1995

Tags: Support, Non-U.S. Gov't

Descriptors: Cell Adhesion Molecules--genetics--GE; * DNA , Complementary --genetics--GE; * DNA , Fungal--genetics--GE; *Genes, Structural, Fungal; *Oligopeptides; *Polyporadeae--genetics--GE; Amino Abid Sequence; Base Sequence; Binding, Competitive; Cell Adhesion; Cell Adhesion Molecules --chemistry--CH; Cell Adhesion Molecules--metabolism--ME; Cloning, Molecular; Escheruchia coli; Molecular Sequence Data; RNA, Fungal --bucsynthesis--BI; RNA , Messenger--biosynthesis--BI; Recombinant Fusion Proteins--biosynthesis--BI

Molecular Sequence Databank No.: GENBANK/S75825; GENBANK/S75826 CAS Registry No.: 6 (Cell Adhesion Molebules); 0 (DNA, Complementary, 0 (DNA, Fungal); 0 (MfbAC protein); 0 (Oligopeptides); 0 (FNA, Fungal); 1 (RNA, Messenger); 1 (Recombinant Fusion Proteins; Fungal 99896-88-2 (arginyl-glybyl-aspartic acid

Gene Symbol: mfbAc ?type s26'full'all

method

26/9/1 (Item 1 from file: 5) MIALDG(R) File 5:Biosis Previews (R) (a) > 002 HIDSLA. All rts. reserv. 13323828 BIONIS MO.: 200100536977 Potential tumor-targeting peptide with a of histidylated oligolysine conjugated to a tumor-homing Fig. motif. ACTHOE: Abki Yuli(a); Hosaka Shigetoshi; Kawa Shigeyuki; Kiyosawa Kende AUTHOR ADDRESS: (a) The Second Department of Internal Medicine, Shinshu University Subbol of Medicine, 3-1-1 Asabi, Matsumoto, 390-8621: yaski55 msp.md.sninsh = 2.ac.jp**Japan TOURNAL: Table: Same Therapy or [10,:pVrs- sciostorer, 2].1 MEDI M: print ISSN: 092 +-1905 DOCUMENT TYPE: Article REDORD TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English ABSTFACT: We have developed a potential tumor-targeting peptide vector [dRGD-hR] that is intended to be systemically and repeatedly administered to patients with advanced solid tumors. The peptide vector of 36 Learning abid residues, CRSDOF(H:H=)RKK)6, comprises a tumor-homing RGD motiff, + DNA -punding oligolysine, and histidyl residues to facilitate the selectry into the cytosol. Using cytomegalovirus-driven labiferasempress: in plasmeds at a reporter, we tested the transfection efficiently of cAGO-AH in nepatoms and pancheatic cancer cell lines. Transfection with th- rEGD-nK'plasmid complexes (molar ratio 4000:1) was inhibited by :) mit par.lonytin Al, an inmibitor of the vacuolar ATPase endosomal pritingeme, or 10 mul4 cycloRSDfV, an integrin alphaybeta3 antagonist, indicating that the three elements of cRGD-hK could function as expected, at least in vitro. In nude mide bearing tumors created by subcutaneous initials ich, lubiferase activity in the tumor tissues 48 hours after the injection of the :RGD-hE/plasm.d complexes through the tail vein maxilarmids per mouse) was significantly nigher than that in the lung, wimely, and spicer, but only slightly higher than that in the liver. Although the latter difference was small, we propose a potential nonviral dene therapy for advanced solid tumors through use of the tumor-targeting pentide vector . REDISTRY NUMBERS: 86699-56-2: BAFILOMYCIN A-1; 9014-00-00: LUCIFERASE; #1#69-41-80: LUCIFEFASE; 61969-99-1Q: LUCIFERASE; 61970-00-1Q: ITCIPHRASE; 63213-54-10: LUCIPERASE; 76116-81-50: LUCIPERASE DESCRIFTORS: MAIOF CONCERTS: Methods and Techniques; Mclecular Genetics (Biochemistry and Micecular Blophysics); Tumor Biology FIGSYSTEMATIC MAMES: Herpesylridae--Animal Viruses, Viruses, Micro e-panisms; Hominidac--Frimates, Mammalia, Vertebrata, Chordata, Amimalia: Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Amimalia CRGANISMO: HepGS cell line (Homenidae)--human hepatoma cells; Hs700T cell line Hominidae) -- human pancreatic cancer cells: MIAPaCa-2 cell line Hominidae) --human pandreatic cander cells; PLC cell line {PRF cell line} (Hominidae) --human hopatoma cells; cytomegalovirus (Herperviridae --expression system; mouse (Muridae) --animal model, male, nude, strain-EALB/c ORGANISMM: PARTS ETC: dytosol BIGSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animal Viruses; Animals; Cherdates; Humans; Mammals; Mudroproproanisms; Nonhuman Mammals; Nonhuman Vertebrates; Primates; Rodents; Vertebrates; Viruses CHEMICALS & BIOCHEMICALS: DNA -binding oligolysine; bafilomycin A-1--vacuolar ATPase endosomal proton pump inhibitor; histidyl residues; luciferase--expression; luciferase expression plasmids--reporter; tumor-targeting peptide vector

METHODS & EQUIPMENT: nonviral gene therapy--genetic method, therapeutic

MISCELLAREOUS TERMS: travier a Hiid be SIMERI COLEC: 2504 Cytology and Cytochemistry-Animal Sytology and Sytochemistry-Human Senetics and Sytogenetics-General 12.08 Genetics and Cytogenetics-Animal 13 06 13 08 Genetics and Cytogenetics-Human 10.02 Enzymes-General and Comparative Studies; Scennymes 34 04 Meoplasms and Neoplastic Agents-Pathology; Clinital Agreeme; Systemic Effects 31:00 Genetics of Bacteria and Viruses Virology-Animal Host Viruses 33-65 BIRSTSTEMATED RODES: 7.3 x 1.2 4-5. 1.5 Herpesviridae (1993-Hominidae 35-75 Chiri dae

26/9/2 (Item 2 from file: 5)

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12.4 F14 FIDEIS NO.: 2000000003216

Structural characterization of mouse CD97 and study of its specific interaction with the murine decay-accelerating factor (DAF, CD55).

AUTH F: Qian Y-M; Haino M; Kelly K; Song W-C(a)
AUTH F ADDRESS: a lenter for Experimental Therapeutics, University of
Pennsylvania School of Medicine, 421 Curie Boulevard, 1351 BRBII/III,
Ph.ladelphia, FA, 1910477USA
JOURNAL: Imminisqy 98 2 :p305-311 Oct., 1999

ISSN: 0019-1805 DOTUMENT TYPE: Antible RECORD TYPE: Abstract LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTFAUT: NDBT is a newly identified, activation-associated human leucocyte antigen with seven putative transmembrane domains. It has an extended extracel. Har se ment containing several adhesion molecule structure modify, and has teen shown to interact with the numan complement regulator, decay-upperenting factor (DAF, CD55). To understand further the interaction between CD97 and DAF, as well as the structure and function of TD97 in general, we have cloned the mouse CD97 cDNA and studied the endo ied protein for its membrane association property and sullity to interact specifically with the murine decay-accelerating is tor. In full-rength mouse 3097 cDNA that we have cloned and theracterited enhades a protein that is 60% identical to the three egidermal (r.wth factor EGF) domain-containing form of human CD97 but uses not contain the Arg-Gly-Asp (RGD) motif which is present in human CD:7. Tw. other alternatively spliced forms of mouse CD97 were also ipentified. These forms differ by the number of EGF-like sequence repeats present in the N-terminal region. Northern blot analysis revealed that CD97 is expressed widely in mouse tissues and in resting as well as activated cultured mouse splenocytes. Transient transfection of human embryonic Ridney (HEE) 193 dells with the mouse CD97 cENA in a then-fluorescence protein vector (pEGFP-N1) showed plasma membrane targeting of the expressed protein. Western blot analysis confirmed its rembrane association and identified the existence of a processed "-terminal fragment, Aupporting the notion that CD97 on the cell membrane .w composed of pout-translationally generated subunits. Adhesion studies demonstrated that normal, but not LAF and skout mouse erythrocytes and opposite system adhered to nouse (TDR)-transferted HER colls. The interaction CD97 and CAF was found to be species-restrictive in that human erythropytes were unable to bind to mouse CD97-transfected HEK cells. These results indicate that the general structure, membrane associa tion property and DAF-binding ability of CDAT are conserved and that the adhesive interaction between CDAT and LAF is independent of the RGD motif. The finding that CD97 is distributed widely among various rouse

tissues suggests that 2007 may have other roles beyond lymphotyte activation.

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TENTRIFT OF CE
 MAJOR CONCERT: Biochemistry and Molecular Biophysics; Cell Biology;
    Immune System (Chemical Coordination and Homeostasis)
  BIDSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata,
   Asimalia; Muridae--Rodentia, Mammalia, Vertebrata, Shordata, Asimalia
  ORGANISMS: 200 cell line (Homin.dae) -- human embryonic kidney cells;
    mouse Muridae'
  DRUGARISMS: PARTS ETC: erythrocytes--blood and lymphatics; layring system-
   blood and lymphatids, immune system; splenceytes--blood and lymphatic
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    Michaels, Morhuman Mammals, Monhuman Vertebratel, Frimates, Fridents,
   Vertebrates
  CHEMICALS & Blochemicals: CD97--HLA, human, mouse, structural
    characterization; arginyl-glycyl-aspartic acid motif; cDNA {
    cumplementary DNA }; decay-accelerating factor {CD55, DAF}--murine;
   epidermal growth factor
  MIGTELLANEOUS TERMS:
                       amino acid sequence; nucleotide sequence
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         Cytollay and Cytochemistry-Human
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         Metabolism-General Metabolism; Metabolic Pathways
         Flood, Blood-Forming Organs and Body Fluids-General; Methods
BIOSYNTEMATIC COLES:
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Follo Muridae
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           (Item 3 from file: 5)
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(c) 1102 BIOSIS. All rts. reserv.
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         BICSIS NO.: 199799313612
Increased in vitro and in vivo gene transfer by adenovirus vectors
 containing chimeric fiber proteins.
AUTHOR: Wickham Thomas J(a); Tzend Edith; Shears Larry L Ii; Roelvink Peter
 W: In Yuan; Dee Gat M; Brough Douglas E; Lizonova Alena; Kovesdi Imre
AUTHOR ADIFESS: (a) GenVec Inc., 12111 Parklawn Dr., Rockville, MD 20852**
JOURNAL: Journal of Virology 71 11):p8221-8229 1997
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IS.::: 012-138M

RE(0081) TYPE: Abstract

LANDIVERE: English

ABSIFACT: Alteration of the natural tropism of adenovirus (Ad) will permit gene transfer into specific cell types and thoreby greatly broaden the shape of target diseases that can be treated by using Ad. We have constructed two Ad vectors which contain modifications to the Ad fiber coat protein that redirect virus binding to either alpha-v integrin (AdC.F' RGD)) in heparan sulfate (AdZ.F(pK7)) cellular recentors. Those we storm wore constructed by a nevel method involving E4 respicant an E4-deficient A4 with a transfer vector containing both the E4 region and the modified fiber gene. Add.F(RGD) increased gene delivery to endethelial and smooth muscle cells expressing alpha-v integrins. likewise, AdD.F-pF7) increased transduction 5- to 500-fold in multiple cell types lacking high levels of Ad fiber receptor, including ratrophage, endethelial, smooth muscle, fibroblast, and T cells. In addition, AdS.F(pE7) significantly increased gene transfer in vivo to vascular smooth muscle cells of the porcine iliac artery following balloon angioplasty. These vectors may therefore be useful in gene therapy for vascular restends is or for targeting endothelial dells in tumors. Although binding to the riper receptor still locurs with these vectors, they demonstrate the feasirling of tissue -specific receptor

rangering in rells which express low lovels of As times reseptor. REGISTRY NUMBERS: 9050-30-0: HEPARAN SULFATE DESCRIPTORS: MATOR CONCEPTS: Biochemistry and Molecular Bi pays: w; B. Tu ana Lymphatics (Transport and directarles), Caril valuation Transport and Circulation); Cell Biology; Genetics; Interfect Cell Meth. 3. and Techniques; Microbiology; Muscular System (Movement and Support) FIGSYSTEMATIC NAMES: Adenoviridae--Viruses; Suidae--Articletyla, Mammalia, Vertebrata, Chordata, Animalia ORGANISMS: adenovirus (Adenoviridae); pig (Suidae) FIGSYSTEMATIC CDASSIFICATION (SUPER TAXA): animals; artiodactyls; chardates; mammals; microorganisms; nonhuman mammals; nonhuman vertebrates; vertebrates; viruses THAMICALL & BIOMHEMICALS: REPARAM SUMEATE MI CELLAMBOUR TERMI: Research Artible, ALPHA-IMTEGRIN; BALLCOM ANG-MOPHASTY; BLOOD AND LYMPHATICS; CHIMERIC FIBER PROTEINS; CIRCULATORY . YOTEM; DNA TRANSFER METHOD; EMIOTHELIAL CELL; FIBROBLAST; GENE THERAPY SEVELOPMENT; GENE VECTOR; GENETIC METROD; HERARAM SULFATE; iliad aftery; immune system; madeophage; methodology; molecular GENETICS; MUSCULAR SYSTEM; SKELETAL SYSTEM; SMOOTH MUSCLE; T CELL; THEFAFEUTIC METHOD: TISSUE -SPECIFIC RECEPTOR TARGETING; VIRAL TRANSFECTION: VINTS CELITIAS RECEPTOR CONCRET CODES: €2 5€ -dytology and Cytochemistry-Amimal (35,00 Genetics and Cytogenetics-Animal 10 ... Bicanem.cs. Methods-Nucleic Acids, Purines and Eyrimidines Biconemics: Studies-Proteins, Peptides and Amino Acids 10174 10000 Riconemical Studies-Carbohydrates 14501Cardicvascular System-General; Methods 15 :::1 15 :::4 Pland, Blood-Forming Organs and Body Fluids-General; Methods Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies Flood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and 1501E Retigulgendothelial System 17811 Muscle-General; Methods 315:0 Genetics of Bacteria and Viruses Virilogy-Amimal Host Virises Dedical and Climical Microbiology-Virology 33566 BIOSYSTEMALIC TODES: (Gadl - Adenovirus e (1995-8-11-4. i Lidae (Item 4 from file: 5) 26/9/4 DIALYG E.) F. le 5:Bibsis Previous(E.) (c) 1012 BIOSIS. All rts. reserv. BIDSIS NO.: 199598200712 09785734 A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif. AUTHOR: Kondoh Osamu; Muto Akihiko; Kajiwara Susumu; Takagi Junichi; Saito Yuni; Shishido Kazuo(a) AUTHOR ADDRESS: (a) Dep. Life Spi., Tokyo Inst. Technol., Nagatsuta, Midori-ku, Yokohama 227**Japan JOURNAL: Gene (Amsterdam) 184 (1):p31-37 1995 ISSN: 0378-1119 DOGUMENT TYPE: Article RECORD TYPE: Ab-thact LANGTAGE: English ABSTRACT: A dONA slone (designated mfbAd, endoding 2157 amino acids (44), was isolated from a mature fruiting-body cDNA library of the edible mushroom Lentinus edodes. The mfbA transcript was abundant in mature fruiting bodies, detectable in immature fruiting bodies but absent in

earlier developmental stages and in the vegetative myselium. Although more abundant in the pileus than the stipe, only low levels were found to

the gill tissue . The deduced MFPA protein (234.6 kla) containes ϵ

₹. g_{oy}.. Tags: Support, Non-1 Descriptors: Cell Adhesion Molecules-- menetics--WE; * DNA , Complementary -- genetics--WE; * DNA , Fungal--genetics--WE; * Genes, Ctructural, Fungal; *Oligopeptics; *Polyporaceae--genetics--WE; Amino Acid Sequence; Base Cequence; Binding, Competitive; Cell Adhesion; Cell Adhesion Molecules -- themistry--CH; Tell Adnesion Molecules -- metabolism -- ME; Clonin; Molecular; Escherichia coli; Molecular Sequence Data; RNA , Funga. --bicsynthesis--Bi; RNA , Messenger--biosynthesis--bi; kecombinant Fisich Proteins--biosynthes:s--BI Molecular Sequence Databank No.: GENBANK/NU5825; GENBANK/NU5826 "AS Registry No.: (Cel. Achesion Molecules); (CMA, Complementary, 20 (NMA, Fungal); (C. MibAC protein ; (C. Milgopertices ; C. PMA, Fungal); (Chan Meduanger); (C. Meduanger); 99396-85-2 (arginy.-glvcyl-aspartin anid Sene Symbol: mfbAl ?ds Set Items Description 31 AD='SHUEY S' OR AU='SHUEY S A' OR AD='SHUEY S R' OP AD TEH-UEY STEVE! OF AU= 'SHUEY STEVEN W' 196 AUR'HOUSA SHAFER' OR AUR'MOUSA SHAKER A' OR AUR'MOUSA SHAKE ER AHMEL' 5639501 33 1 OF 32 S1 CF S2 215 S4 AND ANGIOGENS - .1 36 S4 AND ANGIOGENY 3. COLER AND WELLER AND RENDU "OBLEF-WEBBER-RENDU" U 3 . 165 BARTONELLOSIC SE AND ANGIOUEN? 0300TIC 5725.1 1 1 A.C. C 12 AND ANGIOLEMY Sim AND ANDROCENT 519% F 3D 3:6 183 Sin AND ANDROSENS SIG AND FY-2100 65 315 SIT AND SER OF THE OR CYS) AND (ASM OR GLN) 3.1.4 ANDIOGENT AND ("SEE ASN SEE" OR "SEE GLN SER") ANGIGGENT AND ("SER-ASN-SER" OR "SER-GLN-SER") 5.0 0 ANGICIENT AND ("ENS" OR "SQS") ANGIOGENI AND EDG AND (VECTOR OR DNA OR RNA) 1 ~ = S2.3 S1° AND VECTOR S. 4 7(:1 SI: AND (DNA OF ENA) 823 AND 824 S25 5. 4 S. 6 SOF AME TISSUE OR TISSUES) S. C: ANGIOGENT AND 326 51 8 (_+ -Sib ANE (SMOTIC? 5. 9 SIG AND PUMPY SEC SIG AND (VECTIE? OR VIRUS? OR ADEMOVIRUS? OR RETROVIRUS? OR "MUGLEIC ACID" OF "MUGLEIC ACIDS"; 7 S:1S26 AND (DNA OR BNA OR LIPCSOME? OR POLYLYSTNE?) 852 83% ANT 831

*** Andrus: Path 1 0f [Lial g Information Nervices via Moder.] *## Status: Initializing TCP/IP using (UseTelnetProto 1 Service1D pto-risally, Trying 317600000009999...Open DIALOG INFORMATION SERVICES PLEASE LOGON: ****** HHEHHHER SSSSSSSS ### Status: Signing onto Dialog ENTER PASSWORD: ****** HEHHHHEH SSSSSSS ****** Welcome to DIALOG ### Status: Connected Dialog level 02.09.15D Last logoff: 09:ct02 12:45:57 Logon file408 | 11::112 | 11:26:38 *** ANNOUNCEMENT *** * * * --The following files from Cambridge Scientific Abstracts (CSA) are no longer available: 14, 28, 32, 33, 36, 37, 41, 44, 56, 61, 76, 77, 108, 117, 232, 238, 269, 293, 335. Please enter HELP CSA plus the file number to identify alternative sources of information. Example: HELP CSA14. --File 515 DGB Dur's Electronic Business Directory is now online completely updated and redesigned. For details, see HELP NEWS 515. --File 991 - NewsRoom now contains May 2002 to present records. File 993 - NewsRoom archive contains 2002 records from January 2002-April 2002. To search all 2001 records, BEGIN 990,993 or B NEWS2002. --Alerts have been enhanced to allow a single Alert profile to be stored and run against multiple files. Duplicate removal is available across files and for up to 12 months. The Alert may be run according to the file's update frequency or according to a custom calendar-based schedule. There are no additional prices for these enhanced features. See HELP ALERT for more information. --U.S. Patents Fullitext (File 684) has been redesigned with new search and display features. See HELP NEWS 654 for information. --Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information. --CLAIMS/US Patents (Files 347,341, 942) have been enhanced with both application and grant publication level in a single record. See HELP NEWS 340 for information. --SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information. --Important news for public and academic libraries. See HELP LIBRARY for more information. --Important Motice to Freelance Authors--See HELP FREELATTE for more information For information about the addess to file 45 please see Help News43. NEW FILES RELEASED ***Dialog NewsRoom - Current 3-4 months [File 990,

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     Database, Rates, & Command Descriptions
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Anti-integrin as novel drug-discovery targets: Potential therapeutic and
  diagnostic implications.
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           (Item 2 from file: 5)
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           BIOSIS NO.: 200200272803
Antiangiogenic and antimetastatic properties of Neovastat (AE-941), an
  orally active extract derived from cartilage tissue.
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           (Item 3 from file: 5)
           BIOGIS NO.: 0.200178149
Junctional adhesion molecule 1, JAM-1, regulates bFGF-induced angiogenesis
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Obtustatin, potent inhibitor of angiogenesis by interaction with
  alphalbetal integrin.
           (Item 5 from file: 5)
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          BIOSIS NO.: 200200152127
13523336
Anti- angiogenesis mechanisms and efficacy of the low molecular weight
  heparin, tinzaparin: Anti-cancer efficacy beyond its anticoagulants
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effects.

6/8/6 (Item 6 from file: 5) BIOSIS NO.: 200200151548 13522727

Efficacy of heparin molecular weight fractions and low molecular weight heparins on the release of Tissue Factor Pathway Inhibitor from human endothelial cells: Structure-function relationship. 2001

6/8/7 (Item 7 from file: 5) 13:03579 BIJSIS NO.: 200100510728

Inhibition of angingenesis by peptide analogs of high molecular weight kınınogen domain 5.

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6/8/8 (Item 8 from file: 5) BIISIS No.: /00100399982

Anti- angiogenic efficacy & mechanism of the low molecular weight heparin (LMWH), Tinzaparin and tissue factor pathway inhibitor (TFPI): Potential anti-cancer link and benefits. 2000

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Anti- angiogenesis and anti-tumor efficacy of warfarin in the chick chorioallantoic membrane (CAM) model. 2000

(Item 10 from file: 5) 6/8/10 BIOSIS No.: 200100253737 13046588

Anti- argingeresis and anti-tumor efficacy of warfarin. 2661

6/8/11 (Item 11 from file: 5) BIOSIS NO.: 700100244355 15007206

In vitro angiogenic activity of endothelial cells induced by neutrophils. $\mathbb{C}(0,1)$

6/8/12 (Item 12 from file: 5) BIOSIS NO.: 200100244349 15037200

Common pathways involved in alpha-chemokine and cytokine mediated argiogenesis . 2000

6/8/13 (Item 13 from file: 5) BIOSIS NO.: 200100069224 12362075

Estrogen receptor-alpha in the inhibition of cancer growth and andiogenesis . 2000

(Item 14 from file: 5) BIDSIS NO.: .:00100036607 1.1829458 Antiangiogenesis efficacy of nitric oxide donors.

6/8/15 (Item 15 from file: 5) 12694146 BIOSIS NO.: 200000447648 Anti- andiogenic efficacy of the low molecular weight heparin (LMWH), Tinzaparin and tissue factor pathway inhibitor (TFPI). 6/8/16 (Item 16 from file: 5) 12687096 BICSIS NC.: 200000440598 Andiogenic activity of a platelet specific C-X-C chemokine, neutrophil activating protein-2. 6/8/17 (Item 17 from file: 5) 12685304 BICSIS No.: 260000438606 SM256, a novel non-peptide and potent integrin antagonist for vascular cell integrin alphaybeta3 potently inhibit anglogenesis -mediated disorders. 6/8/18 (Item 18 from file: 5) 1.3616539 BICSIS NO.: 200000370041 Hypoxia induces differential expression of the integrin receptors alphavbeta3 and alphavbeta5 in cultured human endothelial cells. 2.16 1. 6/8/19 (Item 19 from file: 5) 1.600374 BIOSIS NO.: L00000343876 Regulation of angligenesis in vivo by ligation of integrin alpha5beta1 with the central cell-binding domain of fibronectin. 2 (4)(0) 6/8/20 (Item 20 from file: 5) BIOSIS NO.: L000000176616 SQ885, a novel non-peptide integrin antagonist for vascular cell integrins alphavbeta3, alphavbeta5, and alpha5beta1 potently inhibit angiogenesis -mediated disorders. 2000 6/8/21 (Item 21 from file: 5) BIOSIS NO.: 200000176604 1.11. 3102 Inhibition of angligenesis by peptides derived from kininogen domain 5 & by a monoclonal antibody to kiningen domain 5. 2005 6/8/22 (Item 22 from file: 5) BIGSIS NO.: 200000104334 1.335.5832 Domain 5 of high molecular weight kininogen (kininostatin) down-regulates endothelial cell proliferation and migration and inhibits angiogenesis . 2111 (Item 23 from file: 5) 1:1398862 BIDSIS NO.: 000000046729 Inhibition of tumor angiogenesis by a monoclonal antibody to kininogen domain 5. 1 1 1 1

6/8/24

13237408

1993

antagonist, SJ749.

(Item 24 from file: 5)

BIOSIS NO.: 200000045275

Anti- angiogenesis efficacy of small molecule alpha5beta1 integrin

(Item 25 from file: 5) 6/8/25 12207185 BIOSIS NO.: 200000045052 Anti- angiogenic efficacy of the low molecular weight heparin (LMWH), Tinzaparin and tissue factor pathway inhibitor (TFPI). 6/8/26 (Item 26 from file: 5) BIOSIS NO.: 200000042549 12784632 Key role of alphaVbeta3 integrin in hypoxia and cytokine-induced upregulation of vascular endothelial growth factor (VEGF) and other angicgenesis processes: Implications in angiogenesis -mediated disorders. 1949 (Item 27 from file: 5) 6/8/27 17129915 BICSIS No.: 199900524762 Antagonists of vascular cell integrin alpha 5beta 1 inhibit angiogenesis . 1948 (Item 28 from file: 5) 6/8/28 10038394 EIGSIS No.: 199900318913 Novel small molecule alphav integrin antagonists: Comparative anti-cancer efficacy with known angiogenesis inhibitors. 1949 6/8/29 (Item 29 from file: 5) 12 07469 BIDSIS NO.: 199900307988 Role of hypoxia and extracellular matrix-integrin binding in the modulation cells. 1 3 44

of angiogenic growth factors secretion by retinal pigmented epithelial

(Item 30 from file: 5) 6/8/30 BIDSIS NO.: 199900283002 1.772483 Anti- angiogenesis efficacy of high affinity receptor subtype specific somatostatin analogues. 1

6/8/31 (Item 31 from file: 5) BIGSIS NO.: 199900083001 1.112482 Anti- angiogenesis efficacy of nitric oxide donor. 1 4 4 4

(Item 32 from file: 5) 6/8/32 BIOSIS NO.: 139900283000 12002481 Anti- angiogenesis efficacy of cyclooxygenase inhibitors. 1 4 4 4

6/8/33 (Item 33 from file: 5) BIDSIS ND.: 199900170595 11:24486 Antagonist of vascular cell integrin avb3 and avb5 inhibit angiogenesis. 1333

6/8/34 (Item 34 from file: 5) BIUSIS ND.: 199800206991 11425659 Mechanisms of angiogenesis in vascular disorders: Potential therapeutic

Tays: Animal; Female; Human
Descriptors: Anglogenesis Inhibitors--pharmacology--PD; *Antineoplastic
Agents--pharmacology--PD; *Blood Vessels--drug effects--DE; *Neovasculariza

orally active extract derived from cartilage tissue.

Antiangiogenic and antimetastatic properties of Neovastat (AE-941), an

grama tara 1--1 t filiseus Extra de lathSleji ≃-preventi n --pharma logy--PC; Administration, rat; Angiogenesis innocuties --isolation and purification--IP; Antineoplast: Agents --isolation and purification--IF; Antineoplast: Ombined Chemotherapy Froto--Is --therapeutic use--TO; Body Weight--iru; etfetts--DE; Cardinoma, Lewid Lud; --blood supply--BS; Cardinoma, Lewis Lung--drug therapy--DT; Cardinoma, Lewis Dung--pathology--PA; Cartilage--chemistry--CH; Chick Endry; Cisplatin--administration and dosage--AD; Collagen; Dose-Resp use Relationship, Drug; Drug Combinations; Fibroblast Growth Factor 2--towistry --TO; Laminin; Mire; Mice, Inbred BALB C; Proteoglycans; Tissue Extracts --isolation and purification--IP CAS Registry No.: 0 (Angiogenesis Inhibitors); 0 (Antincoplastic Agents); 0 (Antineoplastic Combined Chemotherapy Protocols); 0 (Drug Combinations); 0 (Laminin); 0 (Proteoglycans); 0 (Tissue Extracts); 0 (shark cartilage extract AE 941); 103107-01-3 'Fibroblast Growth Factor 2); 119978-19-6 (matrigel); 15663-27-1 (Cisplatin); 9007-34-8 (Collagen) is caller and webber and rendu 1919 OSLER 143 WEBBER 1217 FENDU C OSTER AND WEBBER AND REMOU "caler-webber-rendu" 38 ("OSLES-WEBBER-RENDU" la bartonellosia 39 106 PARTONELLOSIS Las Set Items lescription BB AU-ISHUEY S' OF AU-ISHUEY S A' OR AU-ISHUEY S R' OR AU-ISH-UEY STEVE! OR AU= 'SHUEY STEVEN W' 196 AU='MGUSA SHAKER' OR AU='MOUSA SHAKER A' OR AU='MOUSA SHAK-ER AHMED' 5639891 1 OR 32 3.3 235 31 OF S2 35 0 34 AND ANGLOGENS 40 34 AND ANGLOGEN? OSLER AND WEBBER AND RENDU "OSLER-WEBBER-RENDU" 188 PAFIONELLOSIS Is sa and anxiodena -166 - 39368.7 ANGIOGEN? 2 89 AND ANGIOGEN? 311 Stype s18'full'all (Item 1 from file: 5) 10/9/1 DIALOG(R) File : 3: Ficsis Previews(R) or 2002 BIOSIS. All rts. reserv. 17296560 BIOSIS NO.: 100090076447 BARTONELLA-BACILLIFORMIS STIMULATES ENDOTHELIAL CELLS IN-VITRO AND IS ANGIOGENIC IN-VIVO AUTHOR: GARCIA F U; WOJTA J; BROADLEY K N; DAVIDSON J M; HOOVER R L AUTHOR ADDRESS: DEF. OF PATHOL., VANDERBILT UNIV., NASHVILLE, TENN. 37232. MURNAL: AM U PATHOL 136 (5). 1990. 1125-1136. 1990. FULL TOURNAL NAME: American Journal of Pathology CODEN: AJPAA RECORD TYPE: Abstract LANGUAGE: ENGLISE ABSTRACT: Bartonellosis , a biphasic disease caused by motile intracellular pasteria, produces in its tissue phase a characteristic dermal eruption. Verruga peruana resulting from a pronounced endotheltal cell proliferation. Bacteria are found in the interstitium and within the cytoclasm of endothelial cells (Rocha-Lima inclusion,. The aim of this

study was to determine if Bartonella bacilliformis produce a substance's' that might be responsible for the vascular proliferation seen in the

Verruga. This was assessed in an in vitte system using human end the coswells and measuring proliferation as well as production of tissue type plasminogen activator after exposure of the endothelial cultures to E. bacilliformis extracts. Cur results indicate that B. bacilliformis possess an activity that stimulates endothelial cell proliferation up to three times that of control. The factor(s) is specific for endothelial polls, heat sensitive, larger than 12 to 14 kd, not enhanced by heparin, has no affinity for heparin, and is predipitated by 45° ammononium silfate. In addition, the B. ba illiformis extra its stimulate production of t-PA antigon in a concentration-dependent fashion. This activity is also heat sens the and out lost after dialysis. It to 14 kd., B. habill formis extra ts, newswer, at not increase the production of plasminogen activator incibitor. It was also determined that B. Dacillaformis emiracts stamplate the formation of new blood vessels in an ". "o model for anglogenesis . These results describe a bacterial factor s) that stimulates two important steps in the development of new blood vessels in vitro, as well as the formation of new blood vessels in vivo. Datermining the mechanism of action, combined with complete maracterization of this :actor(s), may help in understanding the pathogenesis not only of the Verruga and angiogenesis in general but Also the repently described Cat-Spratch-associated epithelioid hemangromas in patrents with AIDS and Kaposi sardoma.

DESCRIPTORS: HUMAN INTRACELULLAR BACTERIA VERRUGA PERUANA DERMAL ERUPTION ELCOT VESSEL FORMATION HEAT SENSITIVITY CELL-SIZE FACTOR CAT-SCRATCH HEMADOSI SABCOMA

COMMERT CODES: Cytology and Cytochemistry-Human Pathology, General and Miscellaneous-Inflammation and inflammatory Disease Cardiovascular System-Physiology and Biothemistry - ;: [: Carifornicular System-Blicd Wessel Pathology Int-gumentary System-Amaromy Integramentary System-Pathology Developmental Biology-Embryology-Morphogenesis, General 34733 Medical and Clinical Microbiology-Bacteriology 1 064 Biochemical Studies-Proteins, Peptides and Amino Acids . 1 · ₹1 · External Effects-Temperature as a Frimary Variable-Hot (1971-) Light Temperature: Its Measurement, Effects and Regulation-General Measurement and Methods Budl) In Mitro Studies, Cellular and Subcellular BIONYSTEMATIC CODES: . 11. -Bartonellacese (1979-) 34215 Hominidae BIOLYSTEMATIC CLASSIFICATION (SUPER TAXA): Microorganisms Basteria Animals Therdates

10/9/2 (Item 1 from file: 155)
DIALOG R: File 155: MEDLINE (F.

Mercebrates Merceals Primates Humans

C6817838 90274094 PMID: 1693472

Bartonella bacılliformis stimulates endothelial cells in vitro and is an grogenic in vivo.

Garcia F U; Woj: : I; Broa iley K N; Davidson J M; Hoover R L

Department of Pathology, Manderbilt University, Mashville, Tennessee

Separtment of Pathology, Sanderbilt Silversity, Hashille, Telliussin 37132. American Aparnal of Dathology (UNITED STATES) May 1990, 136 (8)

American journal of pathology (UNITED STATES) May 1990, 136 pli25-35, ISSN 002-9440 Journal Code: 0370502 Dontract/Grant No.: AS06528; AG; NIA; HL36526; HL; NHLBI Document type: Journal Article

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Bartonellosis , a biphasi disease raused by motile intra ellular balderia, produces in its til sie phase a characteristic dermal er golds (Verruga peruana resulting from a pronounced endothelial rell proliferation. Bacteria are found in the interstitium and within the cytoplasm of endothelial cell. (Rocha-lima inclusion). The aim of this study was to determine if Bartenella badilliformis produce a substance of that might be responsible for the pascular priliteration seen in the Werruga. This was assessed in an in vitro system using human endothelial ceils and measuring proliferation as well as production of tissue type Lasminogen activator after emposure to the endothelial cultures to E. Familliformis extracts. Our results indicate that B. bacilliformis possess on activity that stimulates endothelial cell proliferation up to three times that of control. The factor(s) is specific for endothelial cells, heat sensitive, larger than 11 to 14 kd, not enhanced by heparin, has no affinity for heparin, and is precipitated by 45% ammonium sulfate. In addition, the B. bacilliformis extracts stimulate production of t-PA antigen in a concentration-dependent fashion. This activity is also heat tensitive and not lost after dialysis (12 to 14 kd). S. bacilliform's extracts, however, so not increase the production of plasmicogen activator inclipator. It was also determined that B. bacilliformis extracts stimulate the formation of new blood vessels in an in vivo model for angiogenesis. Thyse results describe a bacterial factor(s) that stimulates two important typs in the development of new blood vessels in vitro, as well as the commation of new blood vessels in vivo. Determining the mechanism of action, combined with a complete characterization of this factor(s), may help in understanding the pathogenesis not only of the Verruga and in general but also the recently described angiogenesis Cat-Scratch-associated epithelipic hemangiomas in patients with AIDS and Maposi sarcoma.

Tags: Animal; Human; Support, U.S. Gov't, Non-P.H.S.; Support, U.S. Gov't, P.H.S.

*Endothelium, *Bartonella--physiology--PH; Vascular Descriptors: --nytology--CY; *Medvascularization, Pathologid--physiopathology--PP; Annigens--analysis--AN; Cell Auhesion; Cell Division; Cells, Cultured; Endothelium, Vascular--immunclopy--IM; Endothelium, Vascular--physiology --FH; Miscle, Smooth--pytology--CY; Neutrophils--physiology--PH; Rats; Hars, Inbred Strains; Tissue Plasminogen Activator--immunology--IM; Wound Healing.

(Antigen:) MAS Registry No.:

Enzyme No.: EC 3.4.21.69 (Tissue Plasminogen Activator)

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12/9/1 (Item 1 from file: 5)
MIALOG(R)File 5:Biosis Previews(R)
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Effects of the novel alphav integrin antagonist SM256 and cis-platinum on growth of murine squamous cell carcinoma PAM LY8.

AUTHOR: van Waes Carter; Enamorado-Ayala Ilean; Hecht David; Sulica Lucien; Chen Phong; Batt Douglas G: Mousa Shaker

AUTHOR ADDRESS: (a,Tumo: Biology Mention, Head and Nork Surgery Branch, Mat. sha. Institute or Learness And Other Communication Disorders, Mat. sha. Institutes of Bealth, B.ag. 11, Rm. 5055, Bethesda, MD, 20586-1419**USA

JOURNAL: International Journal of Oncology 16 (6):p1189-1195 June, 2000

MEDITM: p:unt ISSN: 101:-6439

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

SURMARY LANGUAGE: English

ABSTFACT: Increased density of proliferating and migrating tumor cells and nerwascular endothelial cells has been associated with tumor progression and poor prognosis in patients with squamous cell carcinoma (SCC). Tumor and neovascular endothelial cells in squamous cell cardinoma have been reported to express integrin heterodimers containing the av subunit, which binds to vitrinectin and other extra-cellular matrix proteins that contain the amino arid recognition sequence Arg-Gly-Asp (RGD). In the greasht utuay, we examined the affect of the normal non-peptide av rtagrin antagonist EMASS in gradit of SOC line DAM LYS in BALB's SOLI min, and determined whether \$Man6 has direct inhibitory effects on griwth of murrne enaothelial and PAM LY8 SCC bells in vitro. SM256 innih.to hell adhesion of murine dolls expressing alphawbeta3 and alphaybets: integrins in witho with an ICSS of 35 nM and 30 nM, respectively. Growth of PAM LYS tumors in vivo was inhibited with 14-day continuous administration of \$2156 by subcutaneous osmotic diffusion round, during which a mean serum concentration of 56 nM was detected. While both murine abrtic endotherial cells and PAN LY3 were found to express alphaw integrins by fluorescence bytofluorometry, SM256 at 50 cM in MTT wasay completely inhibited growth of endotnelial cells, but had no significant direct effect on growth of PAM LYB cells. We compared the effect on growth of PAM LY8 of SM236 infusion versus single agent or combination chemotherapy with a maximally telerated dose of dis-platinum, which is used as a standard chemotherapy for SCC. When treatment was initiated at either 7 or 31 days following establishment of tumor, 14-day infusion of SM256 had an inhibitory effect in growth that was similar to that ortained with single dose his-platinum, but no additive effect of concurrent therapy with SM256 and dis-platinum was observed. These results demonstrate the activity and feasibility of use of alphav antigonists such as SMRE6 for thorapy of SCC.

REGISTRY COMMERCE: 1146%- 1-1: Distribution

DEMORIPHORA:

MATOR CONCEPTS: Pharmacology; Tumor Biology

BICTYSIEMATIC NAMES: Muridae--Rodentia, Mammalia, Vertebrata, Chordata,
Animalia

DRGANISMS: PAM LYF cell line (Muridae)--squamous cell carcinoma cell

DRGANISMS: PARTS ETC: aortic endothelial cell--circulatory system;
neovascular endothelial cell--circulatory system

BIOSYSTEMATIC DLASSIFICATION (SUPER TAXA): Animals; Chordatos; Mammals;
Nunnuman Mammals; Nonhuman Vertebrates; Rodents; Vertebrates

DISEASES: squamous cell carcinoma--neoplastic disease
CHEMICALS & BIOCHEMICALS: SM256--alpha-V integrin antagonist;
cis-platinum

ALTERNATE INFEMING: Car India, Squandus Co. 1 (Medil) CONCERT COLEF: 21.1112 Phurma clogy-General 01.500 Pytology and Cytome Cytology and Cyto-memistry-Animal Merplusma and Lesplantia April - Sheral 14501 Cardiovascular System-General; Methods RICHYSTEMATIC CODES: 86375 Muridae ?s 12 and andioden? 1247371 12 36:37 ANGIOGEN? 2:18 12 AND ANGIOGEN? 513 ?s s12 and androgen? 1 813 36-17 ANGIOGEN? 3 S13 AND ANGIOGEN? 314 ?s rgd 315 5198 EGD ?s slE and andiogen? \$198 \$15 36807 ANG BGED7 ANGIOGENT 140 S18 AND ANGIOGEN? 316 \$16 . The second $$99\ \pm1000$$. The second $$140\ \pm316$$ 1803 1.5 FT -2000 43 816 AME PY22000 ?type s17/free/all 17/8/1 (Item 1 from file: 5) BIGSIS NO.: 200100523386 13894565 Peptido-mimetic compounds containing RGD sequence useful as integrin inhibitors. 2002 17/8/2 (Item 2 from file: 5) BIOSIS NO.: 200200356763 In vitro and in vivo evaluation of a technetium-99m-labeled cyclic RGD peptide as a specific marker of alphavbeta3 integrin for tumor imaging. 2002 17/8/3 (Item 3 from file: 5) BIOSIS NO.: 300.00337928 Del1 mediates VSMC adhesion, migration, and proliferation through interaction with integrin alphavbeta3. 2002 (Item 4 from file: 5) 17/8/4 13674697 BIGSIS NO.: 200200333518 Osteopontin deficiency protects joints against destruction in anti-type II collagen antibody-induced arthritis in mice. 2002 17/8/5 (Item 5 from file: 5) 13652749 BIOSIS NO.: 200200281570 Inhibition of the alpha-v integrins with a cyclic RGD peptide impairs angiogenesis , growth and metastasis of solid tumours in vivo. 2002 17/8/6 (Item 6 from file: 5) 13651989 BIUSIS NO.: 200200290810 Kinetics of integrin expression in the mouse model of proliferative

retinopathy and success of secondary intervention with cyclic Fill

peptides.

17/8/7 (Item 7 from file: 5)
13610026 BIDSIS MO.: 200200238847

alphav-integrin antagonist EMD 121974 induces apoptosis in brain tumor cells growing on vitronectin and tenascin.

17/8/8 (Item 8 from file: 5) 13582758 BIOSIS NO.: 2002202211579

A novel RGD peptide inhibited tumor growth in vivo via anti- angiogenic mechanism.

2001

17/8/9 (Item 9 from file: 5) 13570046 BIOSIS NO.: 2002200193867

Characterisation of the thiol isomerase activity of alphavbeta3. 2001

17/8/10 (Item 10 from file: 5) 13561644 BIOSIS NO.: ::00000190465

Preparation and functional evaluation of RGD -modified proteins as alphavbeta3 integrin directed therapeutics. 2002

17/8/11 (Item 11 from file: 5) 13519998 BIOSIS NO.: 000000143819

Shear stress-induced endothelial cell migration involves integrin signaling via the fibronectin receptor subunits alpha5 and beta1.

2002

17/8/12 (Item 12 from file: 5) 13439633 BIOSIS NO.: 100200063454

Domain IVa of laminin alpha5 chain is cell-adhesive and binds beta1 and alphaVbeta3 integrins through Arg-Gly-Asp. 2001

17/8/13 (Item 13 from file: 5) 13409503 BIGSIS No.: 000000033324

Targeted delivery of IL-12 to alphavbeta3 integrin inhibits angiogenesis .

2001

17/8/14 (Item 14 from file: 5) 13409501 BIOSIS NO.: 200200038322

Additive effect of fenretinide and the RGD -blocking peptide RGDfV on endothelial cell ceramide.

2001

17/8/15 (Item 15 from file: 5) 3409500 BIISIS NO.: 300210038321

Synthesis and biological evaluation of novel RGD -containing cyclic pseudopeptides. 2001

17/8/16 (Item 16 from file: 5) 13358139 BIOSIS NO.: 200100565288

Tumor targeting with radiolabeled integrin alphavbeta3 binding RGD

peptides in a nude mouse tumor model.

2001

17/8/17 (Item 17 from file: 5)

17/8/17 (Item 17 from file: 5)

Inhibition of hepatic metastasis in mice treated with cell-binding domain of human fibronectin and angiogenesis inhibitor TNP-470.

2001

17/8/18 (Item 18 from file: 5) 13349645 BIOSIS NO.: 200100556794

A novel synthetic Arg-Gly-Asp-containing peptide cyclo(-RGDfdbdV-) is the potent inhibitor of angiogenesis . 2001

17/8/19 (Item 19 from file: 5) 13348097 BIOSIS NO.: 200100555246

In vitro evaluation of a 99mTc labeled RGD peptide as an antagonist of avb3 integrins in tumor.

17/8/20 (Item 20 from file: 5) 1334542 BIOSIS NO.: 000100553791

Glycosylated EGD -containing peptides: Tracer for tumor targeting and anglogenesis imaging with improved biokinetics.
2001

17/8/21 (Item 21 from file: 5) 13326977 BIGSIS NO.: :00100534126

Peptido-mimetic compounds containing RGD sequence useful as integrin inhibitors.
2001

17/8/22 (Item 22 from file: 5) 13312935 BIOSIS No.: :00100520084

Localisation of brain angiogenesis inhibitor receptor 1-3 mRNA in mouse, rat and human brain.

2001

17/8/23 (Item 23 from file: 5) 13304311 BIOSIS NO.: 100100511460

EGD -modified proteins are potential carriers for drug targeting to angiogenic endothelial cells.

17/8/24 (Item 24 from file: 5) 13252152 BIOSIS NO.: .00100459301

Extracellular matrix-derived peptide binds to alphavbeta3 integrin and inhibits angiogenesis. 2001

17/8/25 (Item 25 from file: 5) 13185465 BIDSIS ND.: 200110392614

Improved pharmacokinetics of (18F) RGD -peptides by serine-conjugation. 2001

17/8/26 (Item 26 from file: 5) 13184703 BIOSIS NO.: 201100391854 Recombinant truncated tissue factor/ P:: fusion protein as a target anti-vascular therapeutic agent.
2001

17/8/27 (Item 27 from file: 5) 12162620 BIOSIS No.: 200100369769

Thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECs and suppresses tumor cell-induced angiogenesis. 2001

17/8/28 (Item 28 from file: 5) 13153744 BIOSIS NO.: 000160360893

Topical application of integrin antagonists inhibits proliferative retinopathy.

2001

17/8/29 (Item 29 from file: 5) 13149962 BIGSIS NO.: 200100357111

Two FGD independent avb3 integrin binding sites on vascular basement membrane derived tumstatin.

17/8/30 (Item 30 from file: 5) 13126775 BIOSIS NO.: 000100333924

Identification of the anti- angiogenic site within vascular basement membrane-derived tumstatin.
2001

17/8/31 (Item 31 from file: 5) 13115520 BIGSIS NO.: :00100322669

An argiogenic laminin site and its antagonist bind through the alphavbeta3 and alpha5beta1 integrins. 2001

17/8/32 (Item 32 from file: 5) 13112023 BIGSIS NO.: 200100319172

Spinal cord repair with PHPMA hydrogel containing RGD peptides (NeuroGelTM).

2001

17/8/33 (Item 33 from file: 5) 13056932 BIOSIS NO.: 200100264131

Pivotal role of integrins in shear-stress-induced release of bFGF from endothelial cells.
2001

17/8/34 (Item 34 from file: 5) 12977601 BIDSIS NO.: 200100184750

Noninvasive imaging of alphavbeta3 integrin expression using 18F-labeled RGD -containing glycopeptide and positron emission tomography. 2001

17/8/35 (Item 35 from file: 5) 12916650 BIGSIS NO.: 200100123999

Aberrant fibrin formation and cross-linking of fibrinogenNieuwegein, a variant with a shortened Aalpha-chain, alters endothelial capillary tube formation.

2001

17/8/36 (Item 1 from file: 155) DIALOG(R) File 155:MEDLINE(R)

22206:31 PMID: 1204VIVA Nep 15 2002

17/8/37 (Item 2 from file: 155) DIALDG(E) File 156:MEDLINE(F)

13419093 21932446 FMID: 11935158

Kinetics of integrin expression in the mouse model of proliferative retinopathy and success of secondary intervention with cyclic FG peptides.

Feb 2002

17543747

Tags: Animal; Support, Non-U.S. Gov't

Pessriptors: *Diabetic Retinopathy--drug therapy--DT; *Diabetic Retinapathy--immunalogy--IM; *Integrins--biosynthesis--BI; *Neovascularizat ion, Pathologic--prevention and control--PC; *Oligopeptides--therapeutic use--TU; *Platelet Addregation Inhibitors--therapeutic use--TU; Disease Models, Animal; Mice; Mice, Inbred C57BL; Oligopeptides--chemistry--CH; Fegtiaes, Cyclic--chemistry--CH; Peptides, Cyclic--therapeutic use--TU; Fetinal Vescals--pathology--PA TAS Registry No.: 0 (Integrins); 0 (Oligopeptides); 0 (Poptides, Cyplic); 0 (Platelet Aggregation Inhibitors); 99896-88-2

(Item 3 from file: 155) 17/8/38 DIALOG(R) File 188: MEDLINE R)

(arginyl-g.yeyi-aspartic acid)

13235017 03005370 PMID: 12009947

In vitro and in vivo evaluation of a Technetium-99m-labeled cyclic Rall peptide as a specific marker of alpha(V)beta(3) integrin for tumor imaging. May-Jun. 2002

17/8/39 (Item 4 from file: 155) DIALOG(E) File 155: MEDLINE (E)

13159195 //1955899 PMID: 11959860

Dell mediates VSMC adhesion, migration, and proliferation through interaction with integrin alpha(v)beta(3). May 2002

Tays: Animal; Human; Cupport, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S. lescriptors: *Carrier Eroteins--physiology--PH; *Cell Adhesion physiology--PH; *Cell Division--physiology--PH; *Cell Movement --physiclogy--PH; -- thysiology--PH; *Muscle, Smooth, Vascular--cytology--CY; *Receptors, Witrinectin--physiology--PH; Apoptosis--drug effects--DE; Baculoviridae --penetics--GE; Carrier Froteins--genetics--GE; Carrier Proteins --pharmacology--PD; Chemotaxis; Embryo; Endothelium, Vascular--metabolism --ME; Gene Expression; In Situ Nick-End Labeling; Neovascularization, Physiologic: Oligopertices--pharmacology--PD: Pedeptors, Vitronemin --antagonists and inhibitors--AI; Recombinant Proteins--pharmactlegy--FL; Epidoptera--metabolism--ME. CAS Registry Mc.: 0 (Carrier Proteins); 0 (Dell protein; (Chigopertides); ((Receptors, Vitronectin); C (Recombinant Proteins,;

⊿3836-85-2 (arginyl-glycyl-aspartic acid)

17/8/40 (Item 5 from file: 155) DIALDG(R) File 158: MEDLINE R)

13092970 21927641

Osteopontin deficiency protects joints against destruction in anti-type

PMID: 11930008

cell-surface attachment-promoting Arg-Cly-Awg RGD and the Mark A was produced in Escherichia coli using a maltose-bloding protein (MHF - th.). h vector, but it was cleaved into four tragments even in a protease-deficient host. A 425-aa MFBA peptide containing the RGD modified named MFBA(582-1008) peptide was successfully produced using the phage T7 expression system. This MFHA 882-1006) peptide exhibited a cell adhesion and spreading activity toward mammalian cells. This activity of the MFBA fragment was competitively inhibited by the Gly-Arg-Gly-Asp-Ser-Pro peptide but not by the Gly-Arg-Gly-Glu-Cer-Er peptide, showing that the RGD solid is MFBA is essential to the mel.-kinding a timety. DEUGRI: TORL: MAJOF CONCEPTS: Blockemistry and Melecular Biophysics; Cell Biology; Gametics; Membranes (Cell Buology); Molecular Genetics (Biochemistry and Molegular Biophysics); Esprodumlum BIOSYSTEMATIC MAMES: Basidiomycetes--Fungi, Plantae; Fungi-Unspecified--Pungi, Plantae: Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Artimalia OFGANISMS: Basidiomydetes (Fundi - Unspecified); Lentinus edodes 'Basidiomydetes); Muridae (Muridae) BMCSYSTEMATIC CLASSIFICATION (SUPER TAXA): animals; chordates; fungi; mammals; microorganisms; nonhuman mammals; nonhuman vertebrates; nonvascular rlants; plants; rodents; vertebrates MOLECHIAR SEQUENCE DATABANK NUMBER: amino acid sequence; molecular sequence data; nucleotide sequence; DDBJ-D01209; EMBL-D01209; GENBANK-D01209 MISCELLAMEOUS TERMS: COMPLEMENTARY DNA ; GILL TISSUE ; MOUSE B16 TELLS; PILEUS; RGD MOTIF; SPREADING ACTIVITY; STIPE; TISSUE SPECIFIC GENE EMPRESSION CONCEPT CODES: +..5(4) Cytology and Cytochem.stry-Plant Cytology and Cytochem.stry-Animal 1 Genetics and Cytogenetics-Flant 1.17. Biogramical Studies-Wielein Anids, Purines and Pyrimidines į į .; Bicommical Studies-Proteins, Peptides and Amino Acids Raplication, Transcription, Translation Biophysics-Membrane Phenomena Plant Enysiology, Biochemistry and Biophysics-Reproduction 111. Plant Enysiology, Biochemistry and Biophysics-Chemical Constituents BIOSYSTEMATIC CODES: Basidismysetes Muridae (Item 5 from file: 5) 26/9/5 DIALOG:R)File 8:Biosis Previews-E) (c 1002 BIDSIS. All rts. reserv. BIDSIS NO.: 199598113709 09443791 Recombinant Domain III of Perlecan Promotes Cell Attachment through Its RGDS Sequence. AUTHOR: Chakravarti Srukți; Horokur Termesa; Jefferson Bahiyyah; Lourie Gordon W; Hassell John R(a) AUTHOR ADDRESS: a)Dop. Ophthalmol., Univ. Sittsburgh Sch. Med., Eye Rar Inst., 209 Lothrop St., Pittsburgh, PA 152** SA COURMAL: Journal of Biological Chemistry 270 (1):p404-409 1995 ISUN: 0021-9288 DON'MENT TYPE: Article RE MRD TYPE: Abstract LANGUAGE: English ABSTRAIT: Perlecan has been previously been shown to support attachment of a wide variety of cells through interactions of its core protein with the cell surface. The core protein domains involved in cell adhesion are,

however, unknown. The laminin-like domain III of murine perlecan contains

integrin-mediated cell attachment. We made a cDNA construct corresponding

an RGDS sequence and is a likely candidate for supporting

well as in trame a stup of the interest of the identity forms that the identity forms the identity with a time and interest interest into the probability wector and transferred into RT1080 cells, and the secreted recombinant domain fill, a 13)-kDa protein, was purified from the medium. The size of protectly intragments produced by digestion with VP protease as well as analysis of the rotary shadowed image of the recombinant protein indicated it was produced in a native conformation. Recombinant domain III coated on tissue culture dishes, supports achesion of an epithelial-like rouse manuary tumor cell line MMT 000100 in a dise-dependent manner. This interaction was inhibited specifically by the RGLS synthetic popular and interaction, but not laminin. This domain III RGD -dependent recate attachment activity indicates a role for perlegan in integrin-mediated signaling.

REGISTRY NUMBERS: 188-37-7Q: INTEGRIN; 60791-49-3Q: INTEGRIN DESCRIPTORS: MAJOR CONCEPTS: Cell Biology; Genetics; Membranes (Cell Biology); Metabolism BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, An.malia ORGANISMO: nomar Fominidae) BIGG/SIBMATIC CLASSIFICATION (SUPER TAXA): animals; chordates; humans; ranmal.; primates; vertebrates CHEMICALL & BIOCHEMICALS: INTEGRID MIRCHLIAMEGUS TERMS: COMPLEMENTARY DNA; HT1080 CELL LINE; INTEGRIN-MEDIATRI SIGNALLING; PERLECAN CONCEPT CODES: 02434 Cytology and Cytochemistry-Human Genetics and Cytogenetics-Human Bitphysics-Membrane Phenomena 3-472 Metabolism-Proteins, Peptides and Amino Acids 19914 Metabolism-Nubleic Adids, Purines and Pyrimidines Sitchemical Studies-Nucleic Acids, Purines and Fyrimidines Signature Biochemical Studies-Proteins, Peptides and Amino Acids 1006; Biochemical Studies-Carbohydrates BIOSYSTEMATIC CODES: ÷ 60.15 Hominidae

26/9/6 (Item 1 from file: 155)

DIALOGER) File 185: MEDLINE (R

Potential tumor-targeting peptide where of histidylated oligolysme conjugated to a tumor-homing RGD motif.

Aoki Y; Hosaka S; Hawa S; Kiyosawa K

The Second Department of Internal Medicine, Shinshu University School of Medicine, Matsumoto, Japan. yaoki55@hsp.md.shinshu-u.ac.jp

Gander gene therapy (England) Oct 2001, 8 (10) p783-7, ISSN 0919-1403 Journal Code: 9432231

Dorument type: Journal Article

Land Lades: ENGLISH

Main Citation Owner: NLM Reford type: Completed Fabilie: INDEX MEDICUS

We have developed a potential tumor-targeting peptide vector (cRGD-hK) that is intended to be systemically and repeatedly administered to patients with advanced solid tumors. The peptide vector of 36 l-amino acid residues, CRGDCF(K'H-]KKK)6, comprises a tumor-homing RGD motif, a DNA-binding pligolysine, and histidyl residues to facilitate the delivery into the symbol. Using dytomegalovirus-driven lumiferase expression plasmids as a reporter, we tested the transfection efficiency of cRGD-hK in hepatima and parcreatic cancer cell lines. Transfection with the delivery in Al, and complexes modar ratio 40 0:1 was inhibited by 1 nM ratioary in Al, and inhibited of the vacualar Alfase engasonal proton pump, or 1 microM cycloRGDfV, an integrin alphaybetas antagonist, indicating that the three elements of cRGD-hK could function as expected, at least in vitro. In nude

m se bearing tumors coreated by substratedus .n.s activity in the tuner tissues in nours after the inject in filling of the SET-nExplasmin complexes through the tail vein as milting plant to per mouse, was significantly higher than that in the jung, kliney, and speeds. but only slightly higher than that in the liver. Although the latter difference was small, we propose a petential neutral gene therapy in advanced solid tumors through use of the tumor-targeting periode vector .

Tags: Animal; Human; Male; Support, Non-".J. Gov't Descriptors: *Gene Therapy--methods--MT; *Genetic Vectors; 'Histidian'; thiver Neoplasms, Experimental -- therapy -- TH; *Oligopeptides -- genetitu -- E; *Pancreatic Necplasms--therapy--TE; *Polylysine--genetics--GE; Antipic*: w. Macrolide--pharmacology--FD; Enzyme Inhibitors--pharmacology--PD; Live Necplasms, Experimental -- metabolism -- ME; Liver Neoplasms, Experimental -- rathology--PA; Luciforase--metabolism--ME; Mice; Mice, Inbred BALE C; Mice, Nude; Oligopeptides--pharmacokinetics--PK; Pancreatic Medplasms--retabolism--ME; Pancreatic Neoplasms--rathology--PA; Flasmids; Fully.ysine--pharmacokinetics--PK; Froton-Translocating ATPases--antagonists and inhibitors--Al; Tissue Distribution; Tumor Cells, Cultured

(M.C. Registry No.: 0 (Antibiotics, Macrollide,;] (Enlyme Inhibitors; Genetic Vectors); ((Oligopeptides); G (Plasmids); 25104-1--1 (Folylysine); 71-10-1 (Histidine); 88899-55-2 (bafilomysin Al,;

99896-88-2 (arginyl-glycyl-aspartle acid) Engyme No.: EC 1.13.12.- (Luciferase); EC 3.6.3.14 (Proton-Translocating ATFases) Record Date Cleated: 20011031

26/9/7 (Item 2 from file: 155)

DIALOG(R) File 1:5:MMULINE(E)

PMID: 7867945 08425136 95173398

A fruiting body-specific cDNA, mfbAc, from the mushroom Lentinus edodes encodes a high-molecular-weight cell-adhesion protein containing an Arg-Gly-Asp motif.

Fordon O; Muto A; Majiwara S; Takagi J; Saito Y; Shishido K Department of Life Science, Tokyo Institute of Technology, Yokohama,

Tala NY EERLANDS Journal Code: T106761 Feb 11 1990, 154 1: #81-7, ISSN 0478-1319

lo imentotype: Journal Article

Languages: ENGLISH

Main Ditation Owner: NLM Felord type: Completed Junifile: INDEX MEDICUS

A cOMA close (designated mfbAc), encoding 2137 amino acids aal, was is lated from a mature fruiting-body cDNA library of the edible mustirism Lentinus edodes. The mfbA transcript was abundant in mature fruiting bodies, detectable in immature fruiting bodies but absent in earlier developmental stages and in the vegetative mydelium. Although more abundant in the pileus than the stipe, only low levels were found in the gill tissue . The deduced MFBA protein (234.5 kDa) contained a cell-surface attachment-promoting Arg-Gly-Asp (RGD) motif. MFBA was produced in Escherichia coli using a maltose-binding protein (MBP) fusion vector, but it was cleaved into four fragments even in a protease-deficient host. A 421-aa MFBA peptide containing the RGD motif (named MFBA(582-1666) peptide) was successfully produced using the phage T7 expression system. This MFBA(582-1006 peptide exhibited a cell adhesion and spreading astivity toward mammalian cells. This activity of the MFBA fragment was competitively inhibited by the Gly-Arg-Gly-Asp-Ser-Pro peptide but not by the Gly-Arg-Gly-Gl:-Der-Pro peptide, showing that the RGD motif of MFBA. is essential for the cell-binding activity.

Tags: Support, Non-U.S. Gov't

Descriptors: Cell Adhesion Molecules-genetics--GE; * DNA , Complementary -- penetics--GE; * DNA , Fungal--genetics--GE; *Genes, Structural, Fungal; *Digopeptides; *Polyppraceae--genetics--GE; Amino Acid Sequence; Base Sequence; Binding, Competitive; Cell Adhesion; Cell Adhesion Molecules -- Themistry--CH; Cell Adhesion Molecules--metabolism--ME; Clining, Molecular; Escherichia coli; Molecular Sequence Data; RNA , Fungal